



Exploration Services LLC

www.pmls.com

Scale 1:240 (5"=100') Imperial

Well Name: Bryant 3508 1-10H
Location: 10-35S-8W Harper County
Licence Number: 15-077-21899-01-00 Region: Kansas
Spud Date: 1/10/13 Drilling Completed:
Surface Coordinates: 300' FNL & 1,920' FWL of Section 10-35S-8W

Bottom Hole 300' FSL & 1,980' FWL of Section 15-35S-8W
Coordinates:
Ground Elevation (ft): 1,285' K.B. Elevation (ft): 1,303' (+20' EST)
Logged Interval (ft): 3,400' To: Total Depth (ft): 12.500
Formation: Mississippi Limestone
Type of Drilling Fluid: WATER BASE MUD

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5720

GEOLOGIST

Name: Tammy Alcorn
Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5720

MUD LOG

PML Exploration Services LLC
5601 NW 72nd St., Suite 354
Oklahoma City, OK 73132
UNIT # 34
MUDLOGGERS: Devonia Horton / Brad Baram

CONTRACTOR

Unit Rig 310

BIT INFORMATION	
NUMBER	2
COMPANY	HUGHES
MODEL	AT-506-X
TYPE	HCC
SIZE	8.75
JETS	6X16
TOTAL FEET	4529
TOTAL HRS	33.85
AVG ROP	133
WOB	20
RPM	180
DEPTH IN	775
DEPTH OUT	5304

MW IN 40/8.5 OUT
39/8.5

ERROR
RETRIEVING
DATA

WOB 15.7
RPM 79
SPM 186
PP 1813

ERROR
RETRIEVING
DATA

0 Bryant 3508 1-10H (min/ft) 5
0 Gamma (API) 150

850

900

950

1000

Sample collection to
begin at 3,400' MD.

Sample collection to
begin at 3,400' MD.

Sample collection to
begin at 3,400' MD.

SD: 999.00
Inc: 0.45
Azi: 64.25
TVD: 998.95
VS: 5.86

Monitoring gas at 800' MD.
Sample collection to begin at
3,400' MD.

Monitoring Gas

ERROR
RETRIEVING
DATA

Monitoring
Gas

ERROR
RETRIEVING
DATA

0 C1-NC4 100

ERROR
RETRIEVING
DATA

MW IN 39/8.6 OUT
40/8.6

CONN

CONN

Bryant 3508 1-10H (min/ft)
Gamma (API)

Sample collection to
begin at 3,400' MD.

Sample collection to
begin at 3,400' MD.

SD: 1458.00
Inc: 0.16
Azi: 163.37

ERROR
RETRIEVING
DATA

Monitoring
Gas

CG 10 u.

Monitoring
Gas

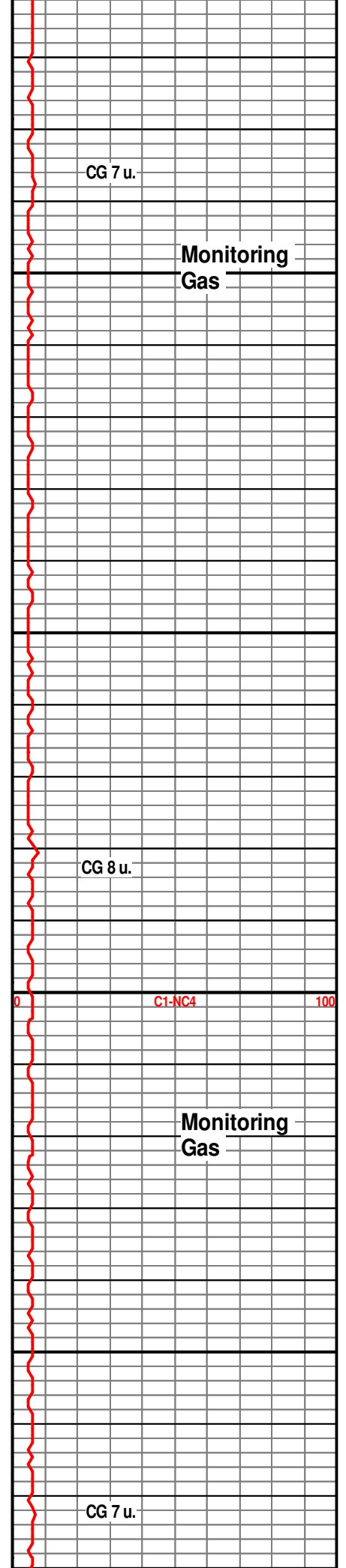
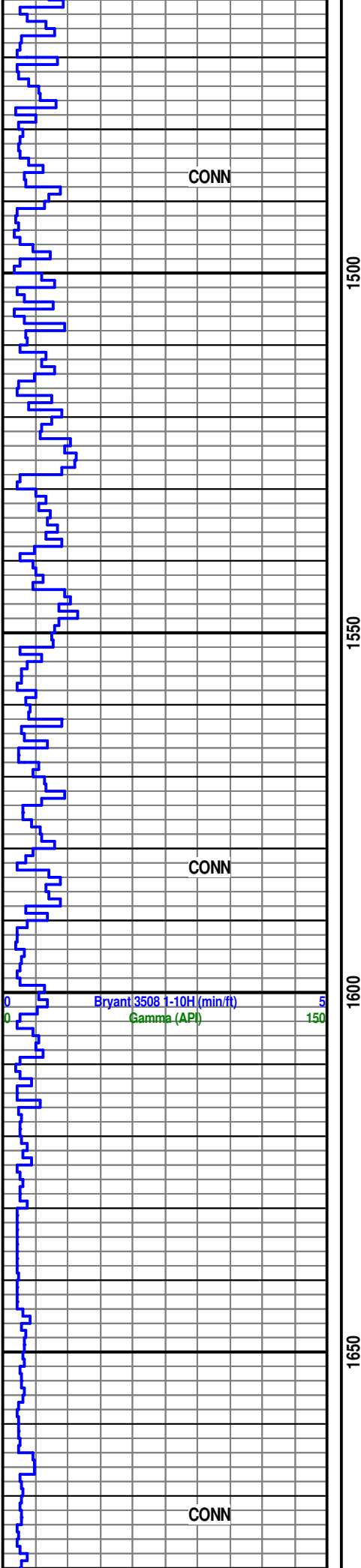
CG 9 u.

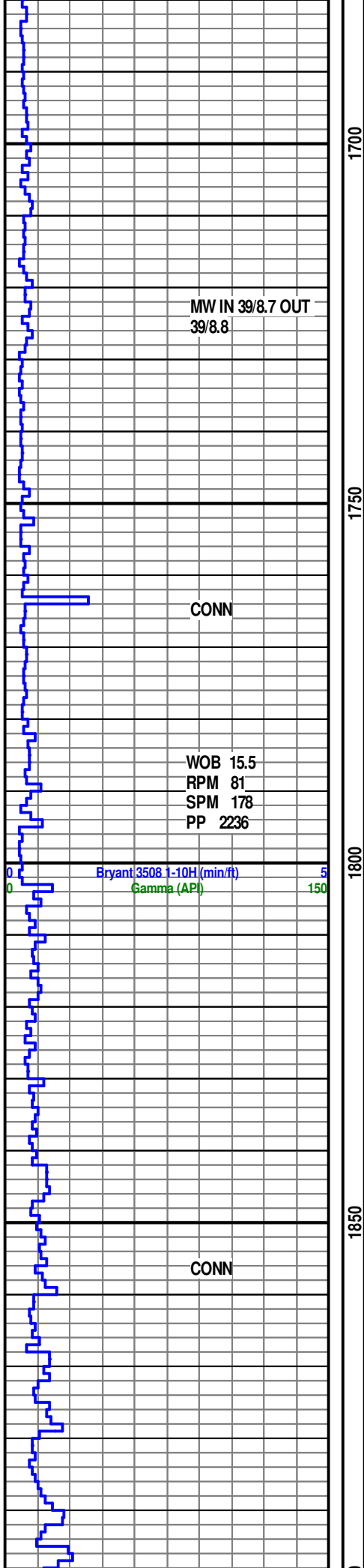
C1-NC4

TVD: 1457.95
VS: 5.86

Sample collection to
begin at 3,400' MD.

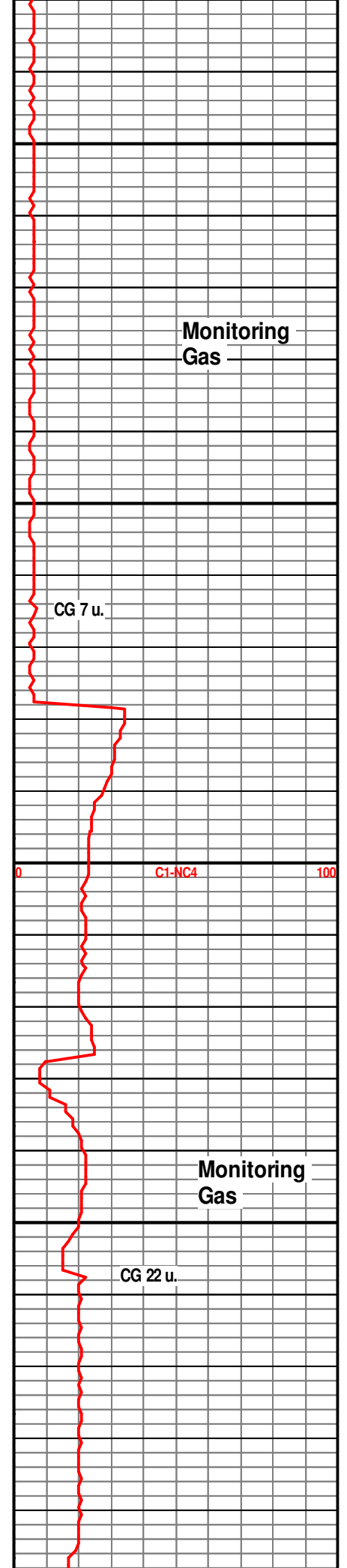
Sample collection to
begin at 3,400' MD.

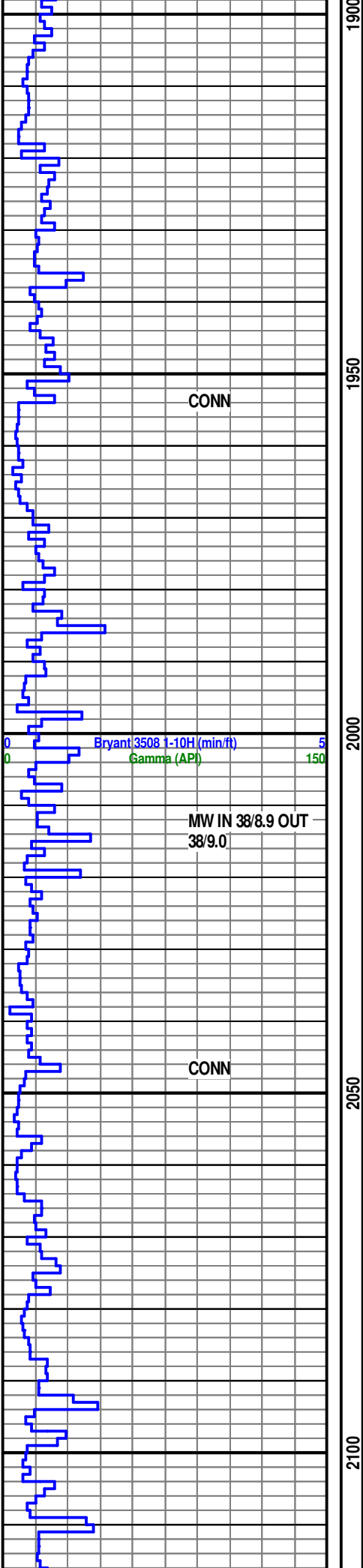




Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.

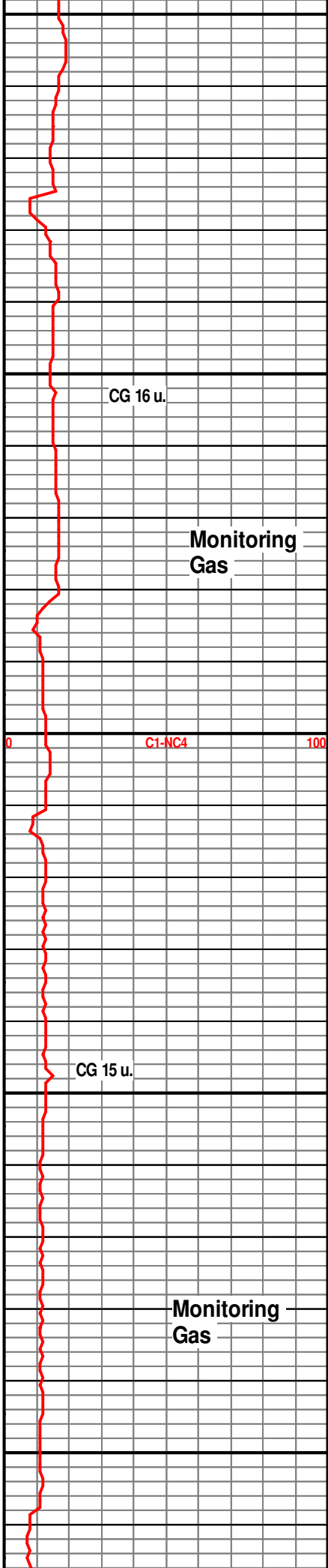


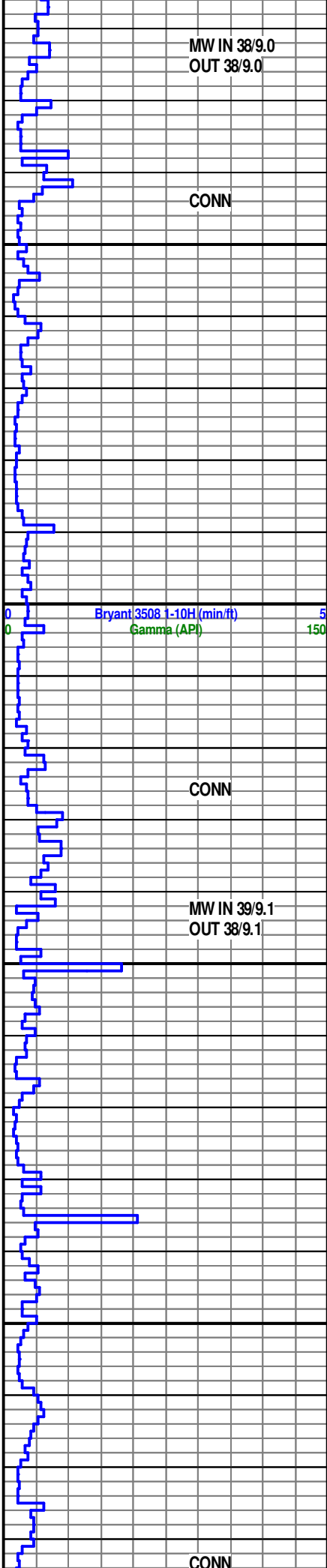


SD: 1923.00
Inc: 0.34
Azi: 162.97
TVD: 1922.95
VS: 6.37

Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.





2150

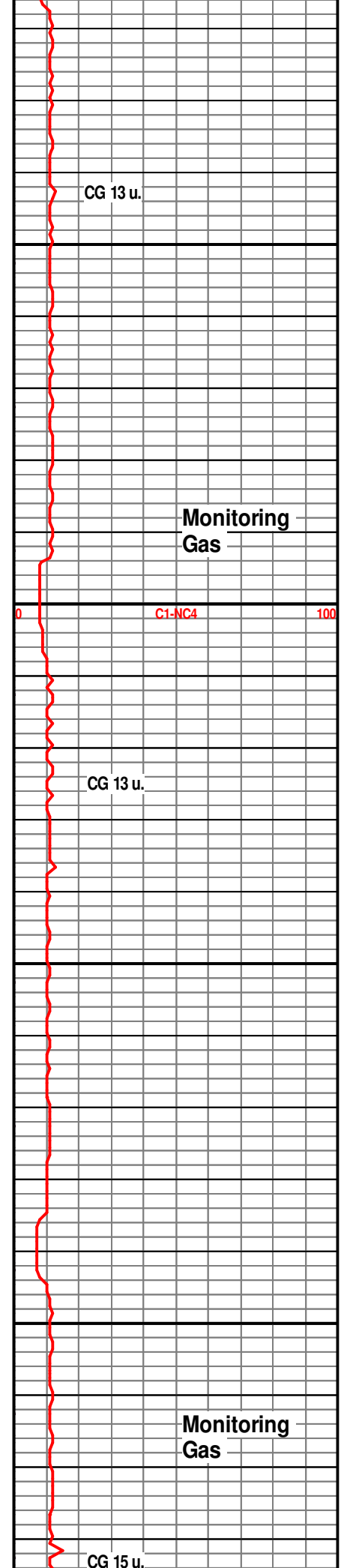
2200

2250

2300

Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.



CG 13 u.

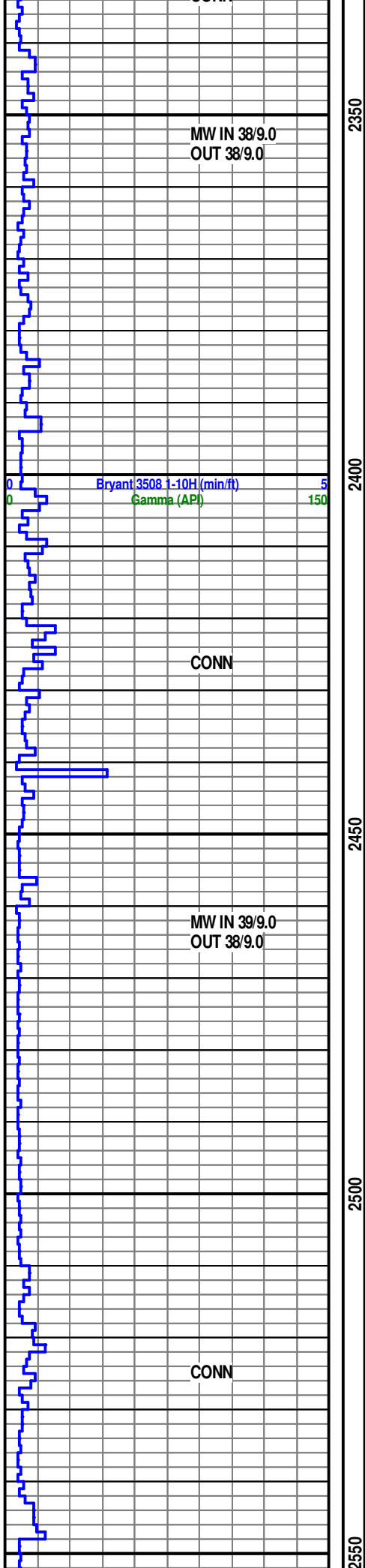
Monitoring Gas

C1-NC4

CG 13 u.

Monitoring Gas

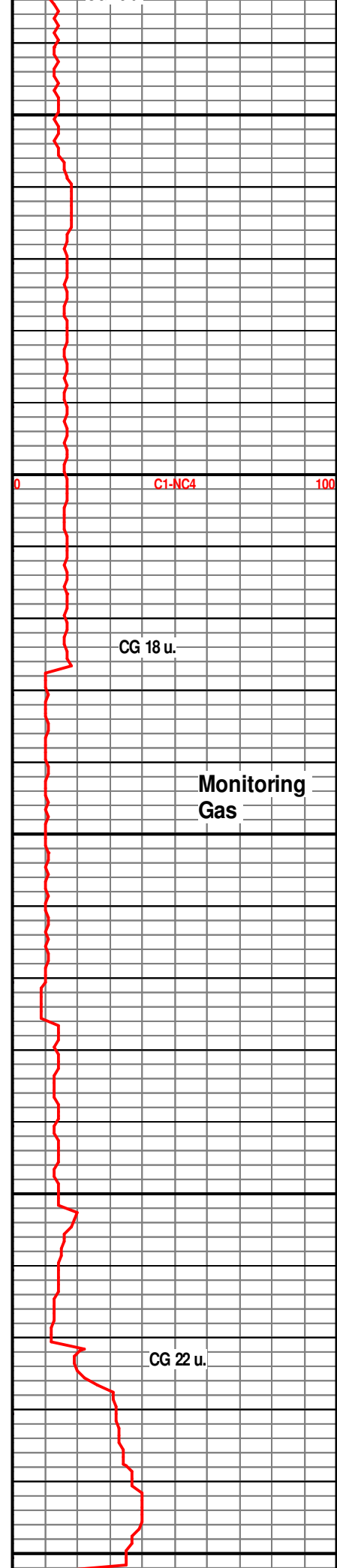
CG 15 u.

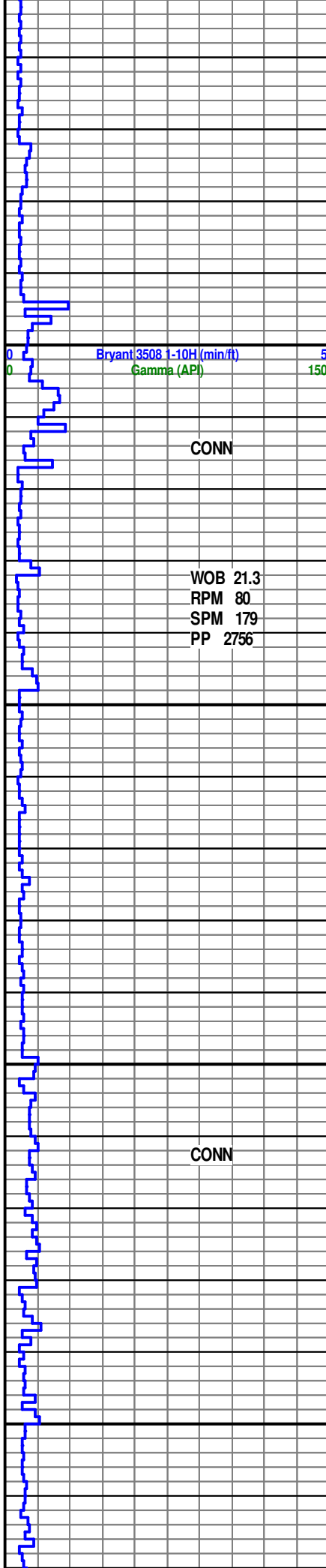


Sample collection to
begin at 3,400' MD.

SD: 2397.00
Inc: 0.24
Azi: 98.61
TVD: 2396.94
VS: 6.37

Sample collection to
begin at 3,400' MD.

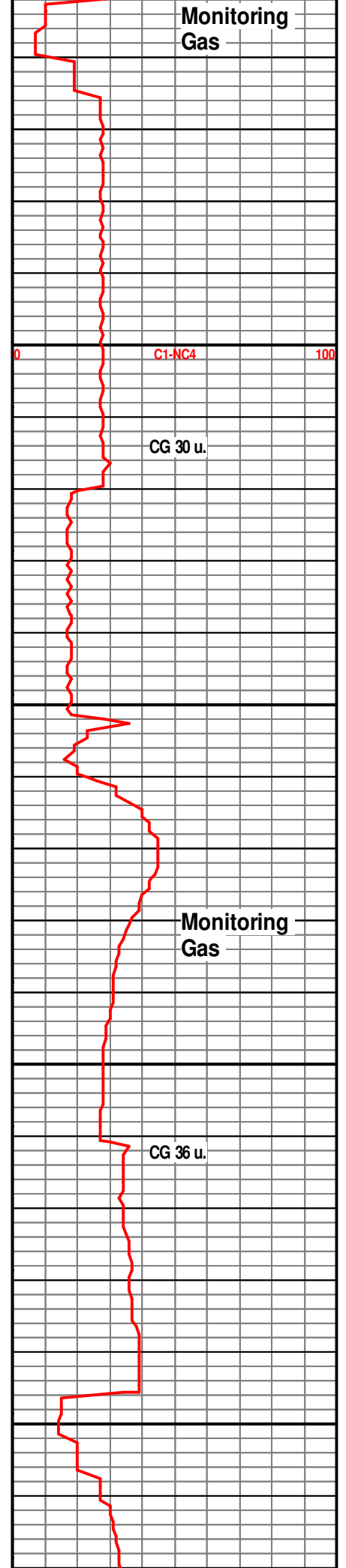


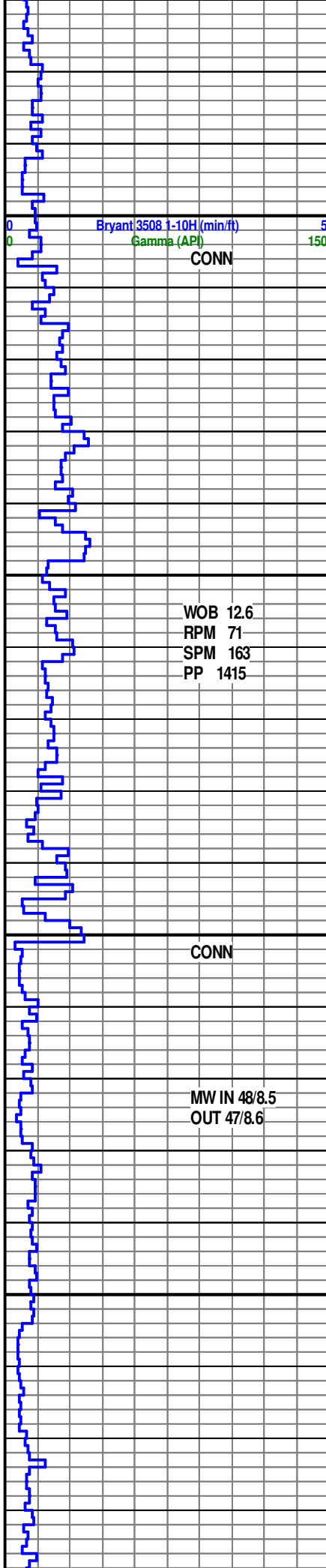


2600
2650
2700
2750

Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.





2800

2850

2900

2950

Bryant 3508 1-10H (min/ft)

Gamma (API)

CONN

WOB 12.6
RPM 71
SPM 163
PP 1415

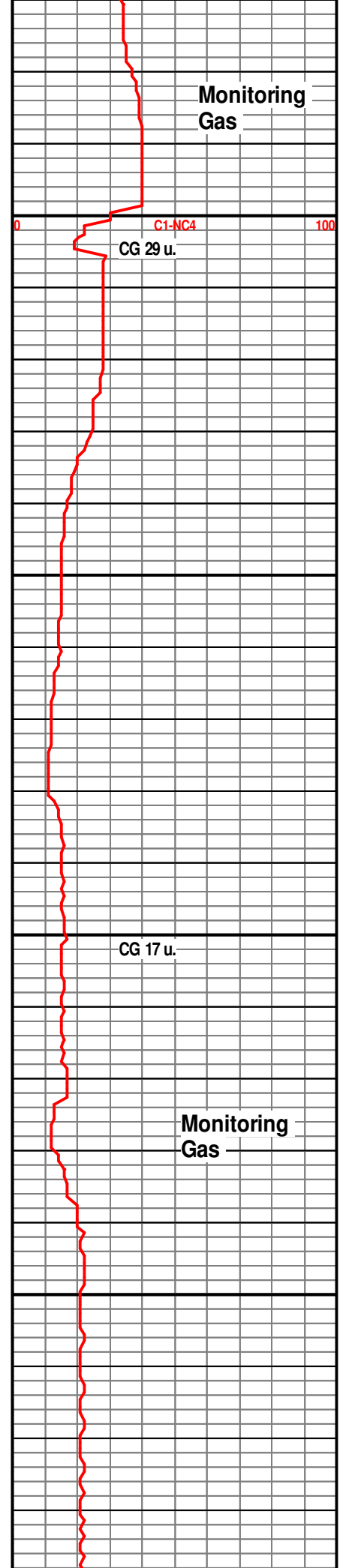
CONN

MW IN 48/8.5
OUT 47/8.6

Sample collection to
begin at 3,400' MD.

SD: 2871.00
Inc: 0.63
Azi: 255.49
TVD: 2870.93
VS: 7.80

Sample collection to



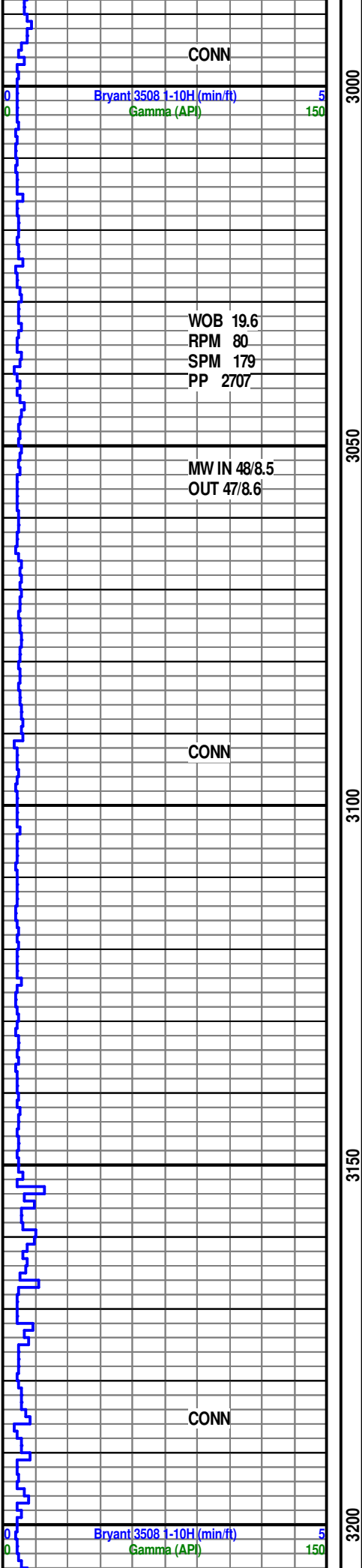
Monitoring
Gas

C1-NC4

CG 29 u.

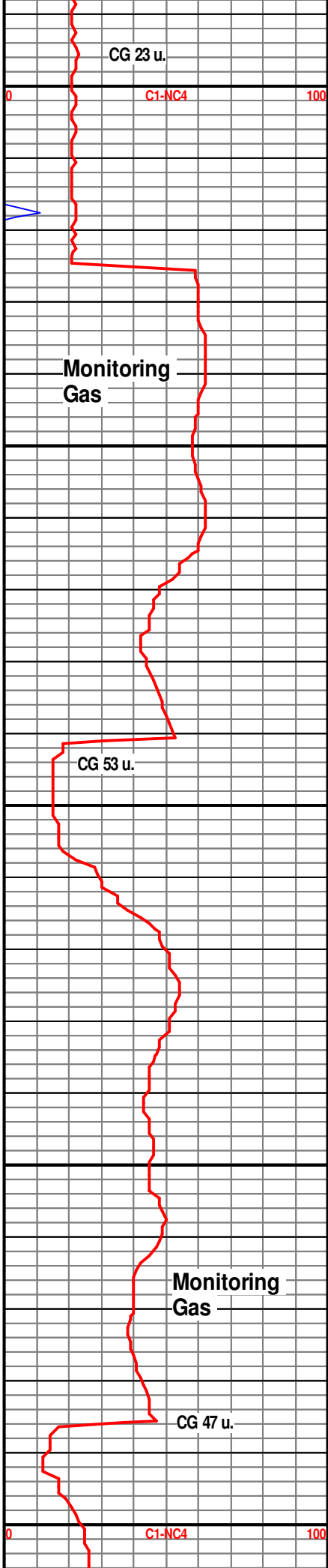
CG 17 u.

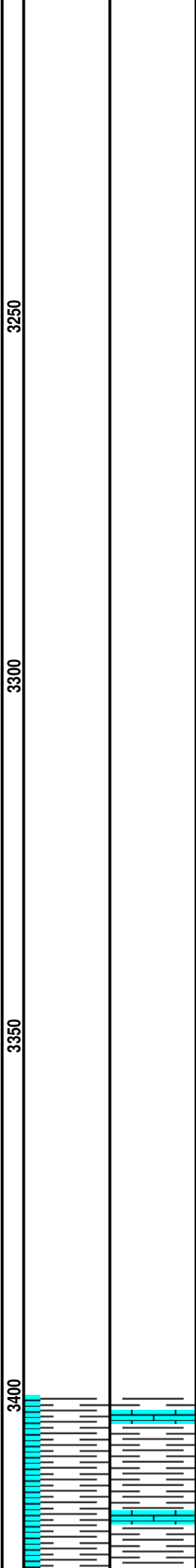
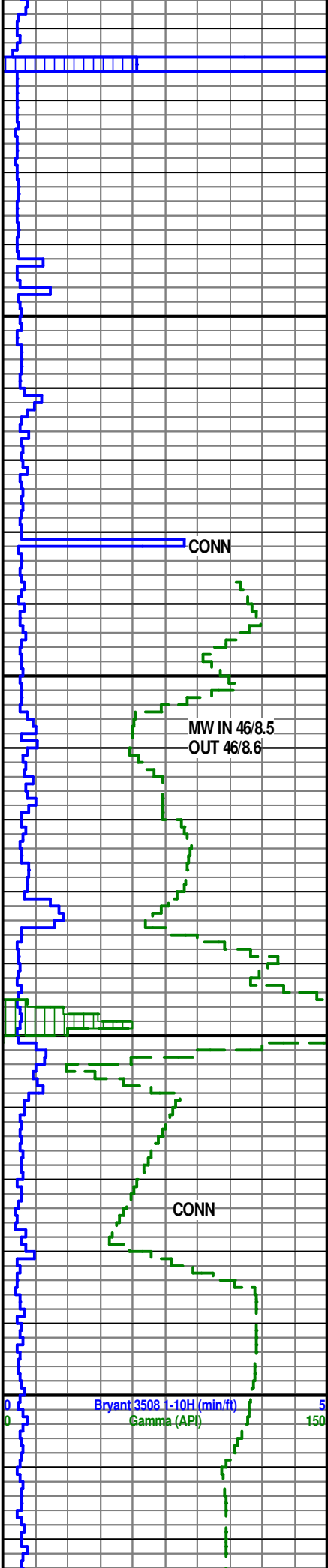
Monitoring
Gas



begin at 3,400' MD.

Sample collection to
begin at 3,400' MD.

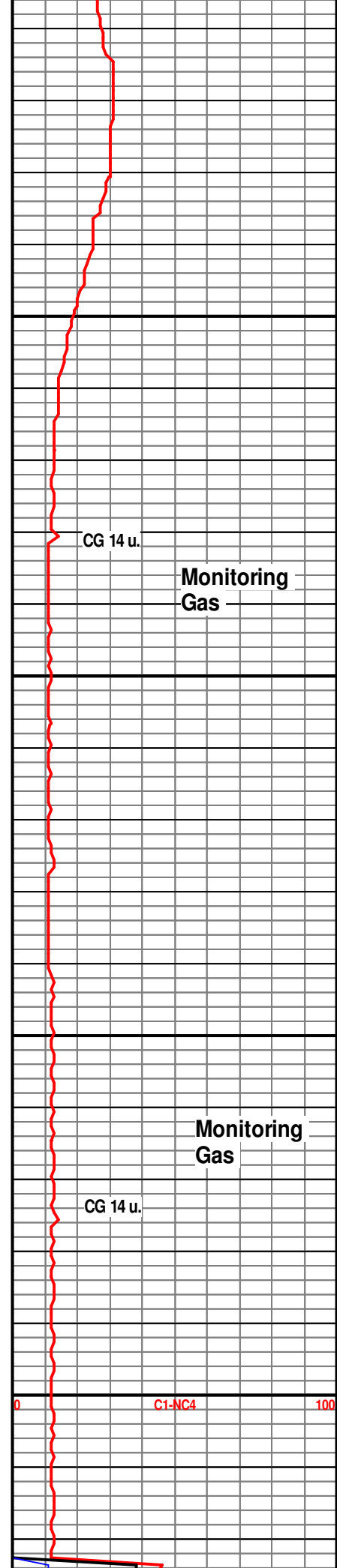


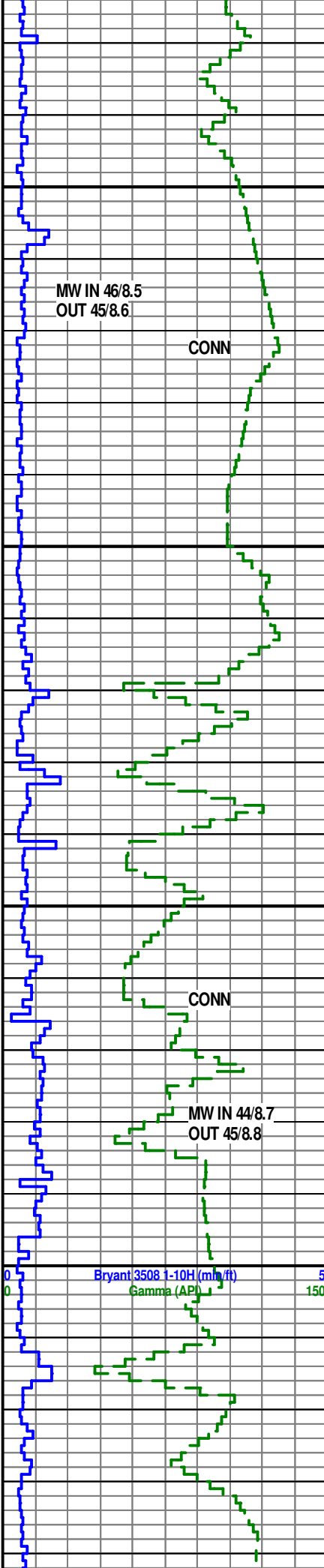


Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.

LS: 20% wht-crm, frm, mic xln, dull, arg; SH: 80% dk gry-gry, sft-frm, plty





SD: 3441.00
Inc: 0.15
Azi: 149.53
TVD: 3440.93
VS: 8.51

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

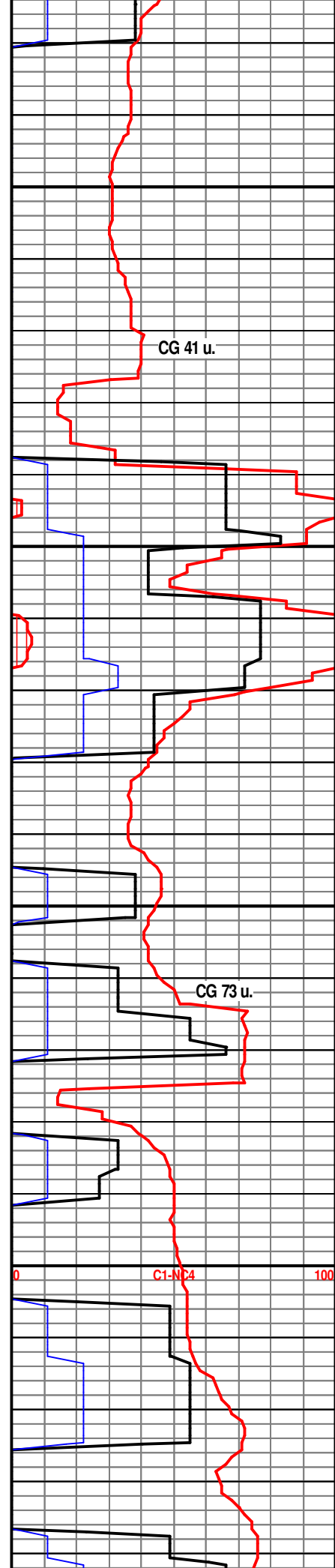
LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

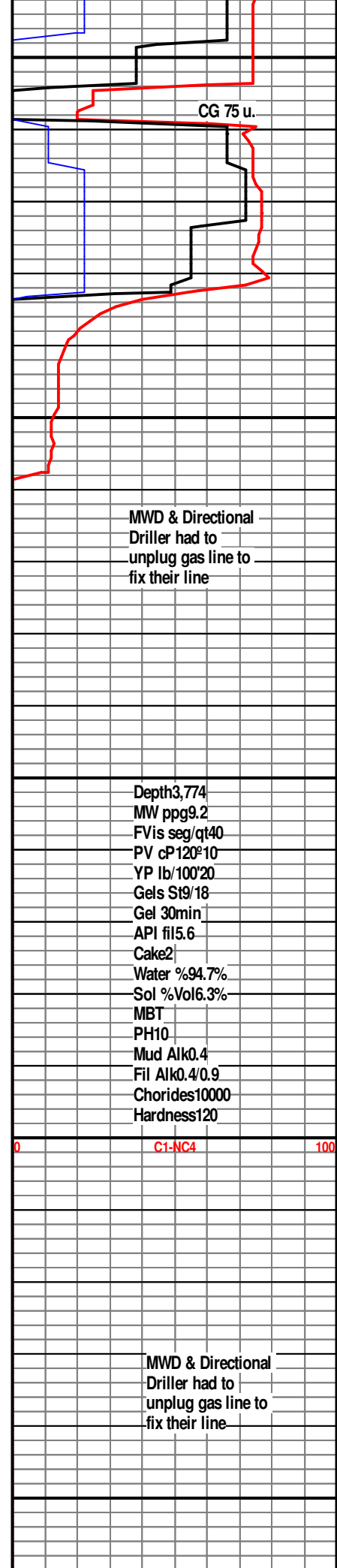
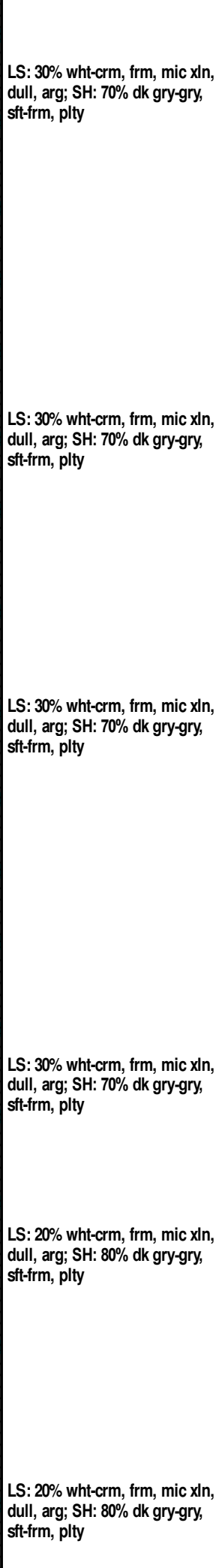
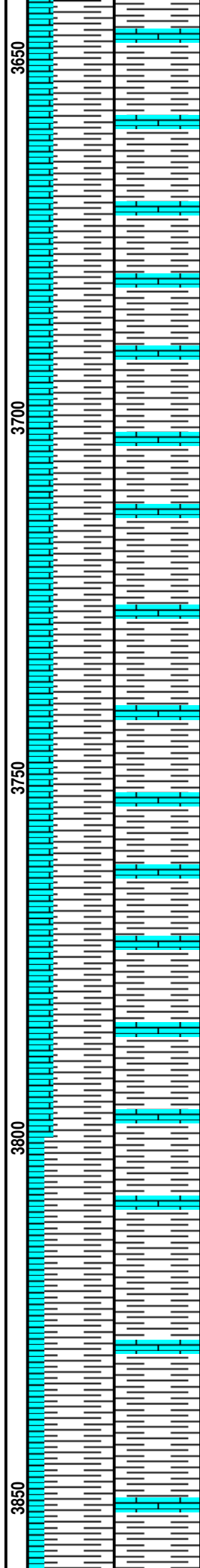
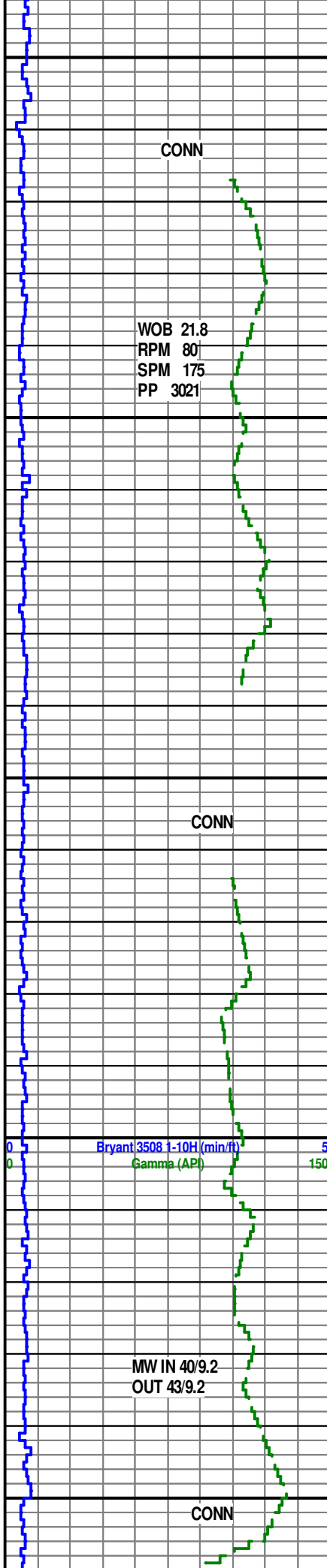
Base Heebner @ 3,537'
MD, 3,537' TVD.

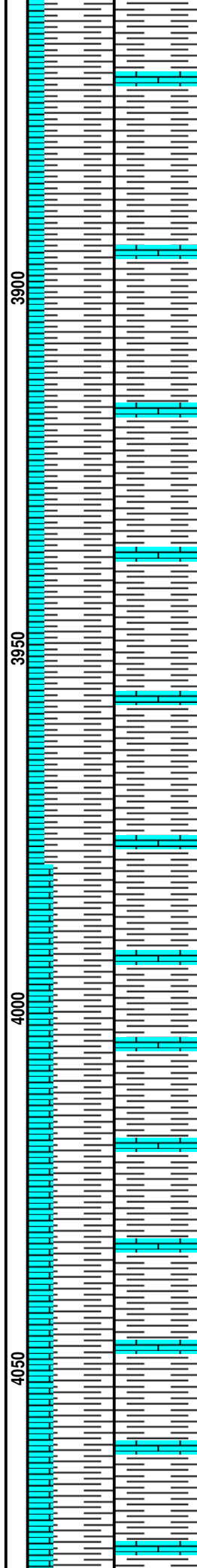
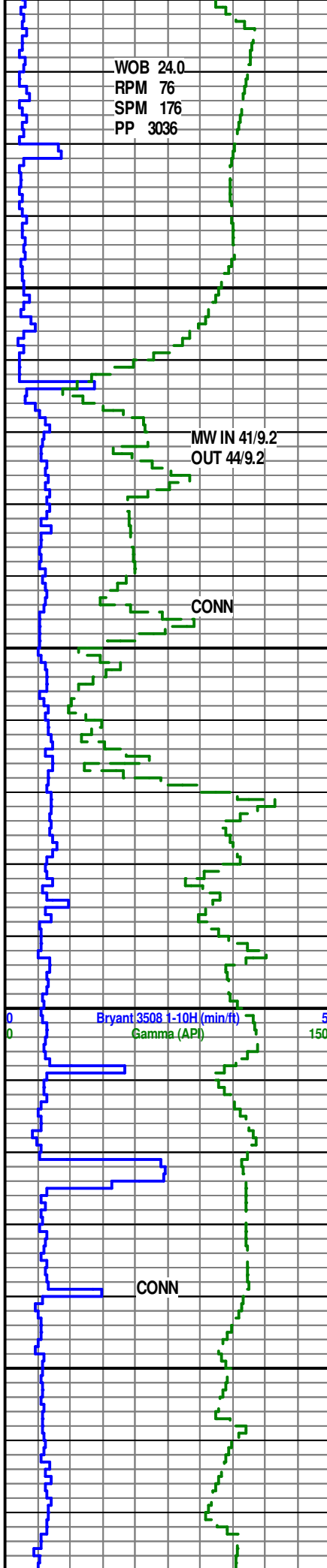
LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

LS: 30% wht-crm, frm, mic xln,
dull, arg; SH: 70% dk gry-gry,
sft-frm, plty







LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

**Lansing @ 3,906' MD,
3,906 TVD.**

SD: 3915.00
Inc: 0.28
Azi: 204.55
TVD: 3914.92
VS: 9.72

SD: 3947.00
Inc: 1.18
Azi: 182.33
TVD: 3946.91
VS: 10.12

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

SD: 3978.00
Inc: 3.85
Azi: 180.72
TVD: 3977.88
VS: 11.48

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

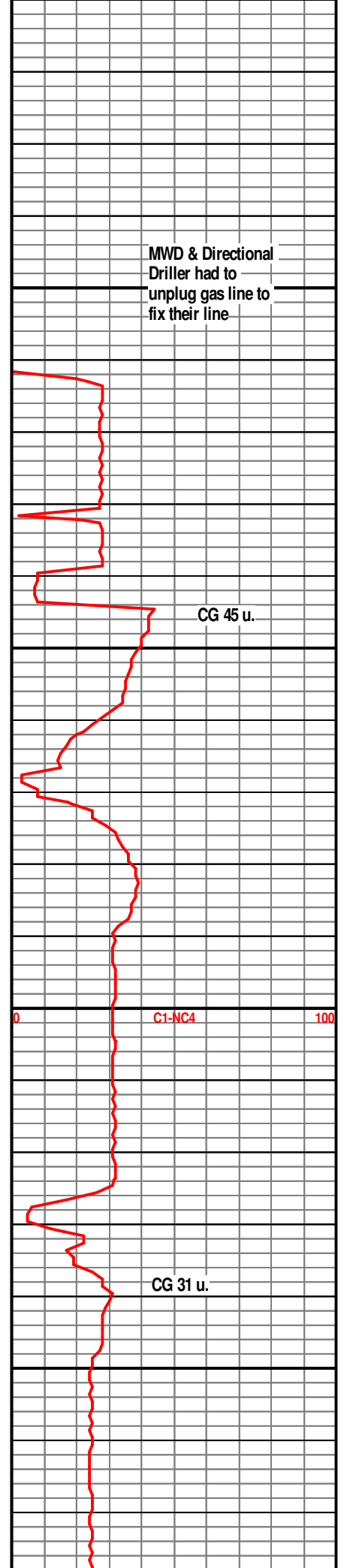
LS: 30% wht-crm, frm-hrd, mic
xln, dull, arg; SH: 70% dk
gry-gry-ltgry, sft-frm, plty

SD: 4010.00
Inc: 6.17
Azi: 178.58
TVD: 4009.76
VS: 14.27

SD: 4041.00
Inc: 8.53
Azi: 178.84
TVD: 4040.50
VS: 18.24

LS: 30% wht-crm, frm-hrd, mic
xln, dull, arg; SH: 70% dk
gry-gry-ltgry, sft-frm, plty

SD: 4073.00
Inc: 10.46
Azi: 177.75
TVD: 4072.06
VS: 23.52



WOB 11.2
RPM 80
SPM 181
PP 3146

MW IN 42/9.2
OUT 41/9.2

CONN

Bryant 3908 1+10H (min-ft)
Gamma (API)

CONN

MW IN 40/9.2
OUT 41/9.2

4100

4150

4200

4250

LS: 30% wht-crm, frm-hrd, mic
xln, dull, arg; SH: 70% dk
gry-gry-ltgry, sft-frm, plty

SD: 4104.00
Inc: 12.01
Azi: 177.44
TVD: 4102.47
VS: 29.55

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

SD: 4136.00
Inc: 13.59
Azi: 179.04
TVD: 4133.67
VS: 36.64

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

SD: 4168.00
Inc: 15.06
Azi: 180.44
TVD: 4164.67
VS: 44.56

LS: 20% wht-crm, frm, mic xln,
dull, arg; SH: 80% dk gry-gry,
sft-frm, plty

Cottage Grove @ 4,187' MD 4,183' TVD

LS: 90% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull-chky, sli frm-frm,
arg, SH: 10% lt-med Gy, frm, blkly,
lam, rthy, no flor, no ring/cut

SD: 4200.00
Inc: 17.32
Azi: 180.75
TVD: 4195.40
VS: 53.48

SD: 4231.00
Inc: 20.70
Azi: 179.47
TVD: 4224.71
VS: 63.57

LS: 90% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull-chky, sli frm-frm,
arg, SH: 10% lt-med Gy, frm, blkly,
lam, rthy, no flor, no ring/cut

SD: 4263.00
Inc: 23.26
Azi: 179.08
TVD: 4254.38
VS: 75.55

SD: 4295.00
Inc: 26.06
Azi: 178.44
TVD: 4283.46
VS: 88.90

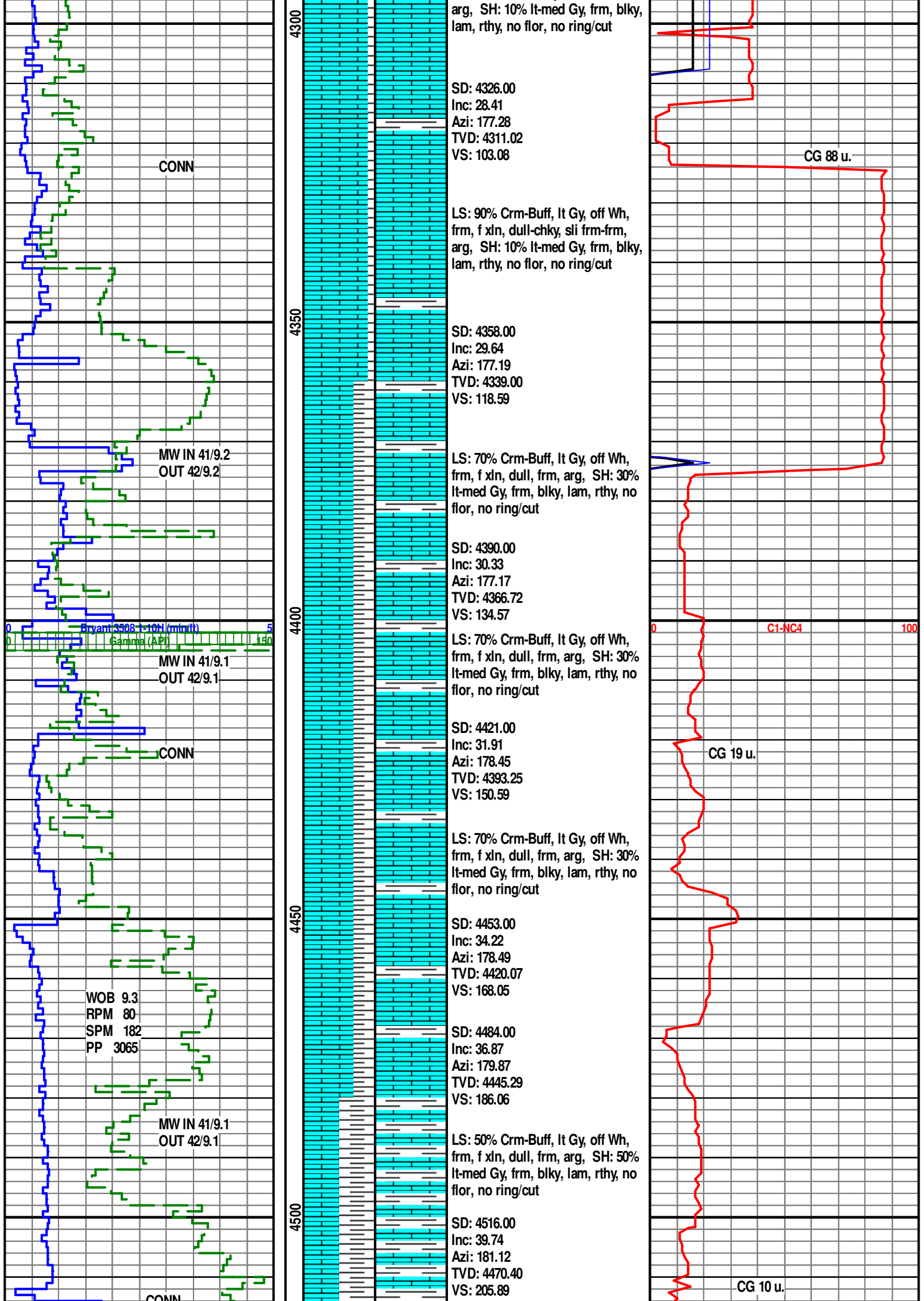
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frm, f xln, dull-chky, sli frm-frm,

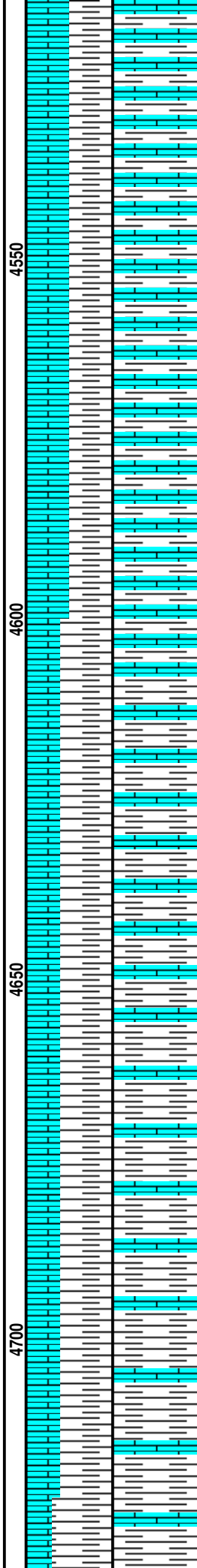
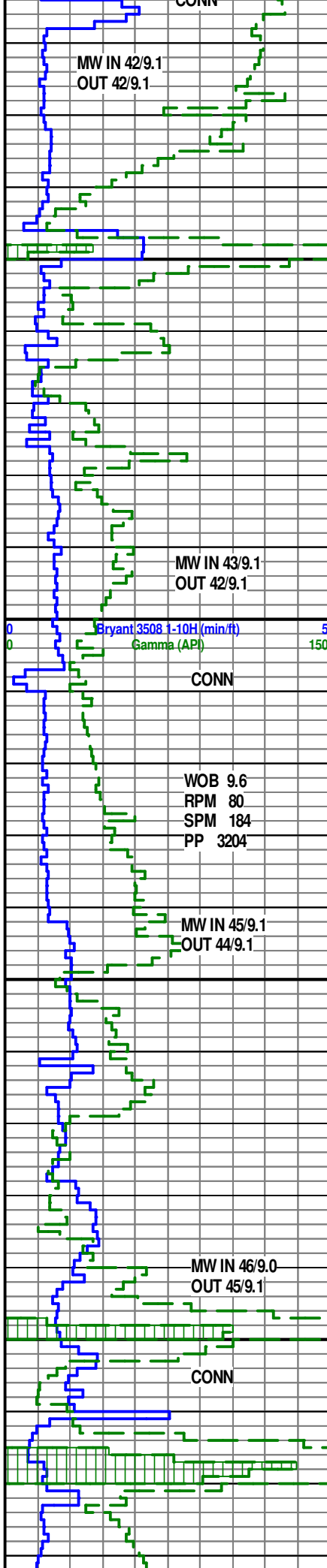
CG 89 u.

C1-NC4

100

CG 77 u.





LS: 50% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 50%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4547.00
Inc: 42.06
Azi: 181.67
TVD: 4493.83
VS: 226.17

**Oswego @ 4,552' MD,
4,498' TVD**

LS: 50% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 50%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4579.00
Inc: 43.11
Azi: 181.23
TVD: 4517.39
VS: 247.81

SD: 4611.00
Inc: 43.75
Azi: 181.44
TVD: 4540.63
VS: 269.80

LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4642.00
Inc: 44.40
Azi: 181.21
TVD: 4562.90
VS: 291.35

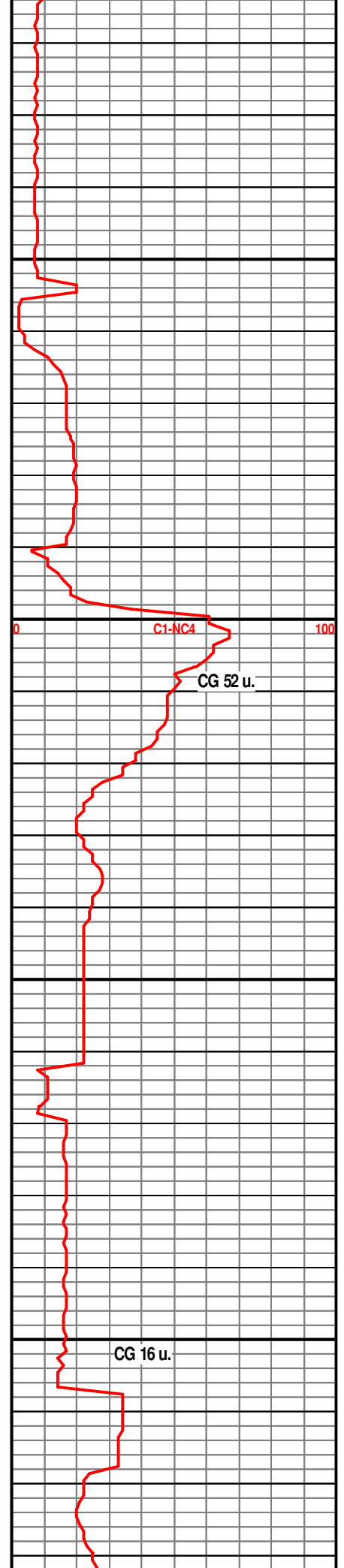
SD: 4674.00
Inc: 45.84
Azi: 180.70
TVD: 4585.48
VS: 314.01

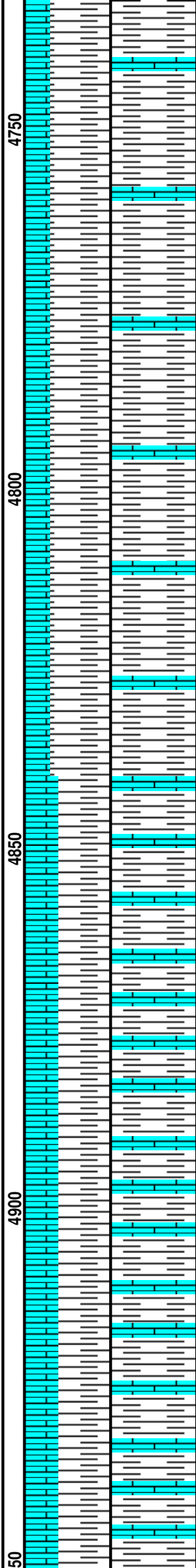
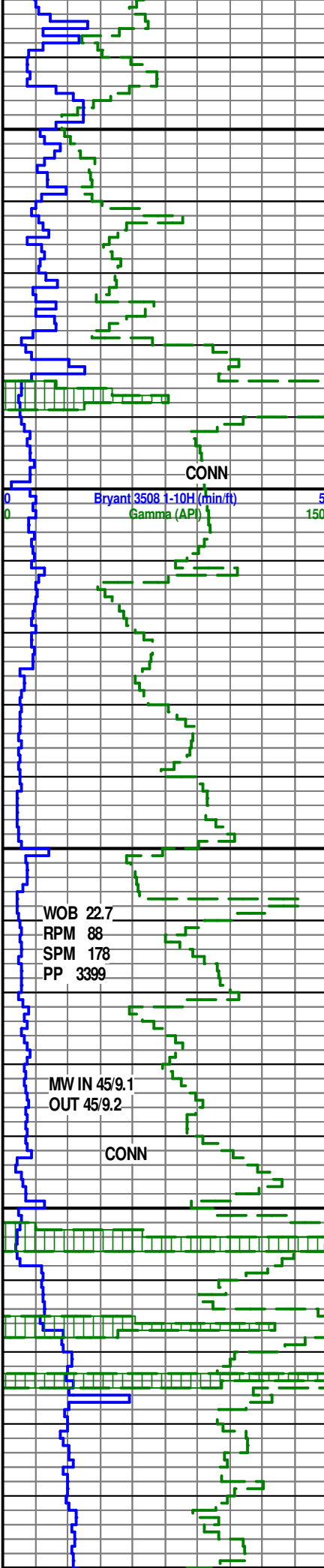
LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4705.00
Inc: 48.35
Azi: 181.28
TVD: 4606.58
VS: 336.71

**Cherokee @ 4,702' MD,
4,605' TVD**

LS: 30% Crm-Buff, lt Gy, off Wh,





frm, f xln, dull, frm, arg, SH: 70%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4769.00
Inc: 49.77
Azi: 181.39
TVD: 4648.52
VS: 385.02

**Verdigris @ 4,758' MD,
4,640' TVD**

LS: 30% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 70%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

LS: 30% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 70%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4863.00
Inc: 50.52
Azi: 181.65
TVD: 4708.76
VS: 457.13

LS: 30% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 70%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

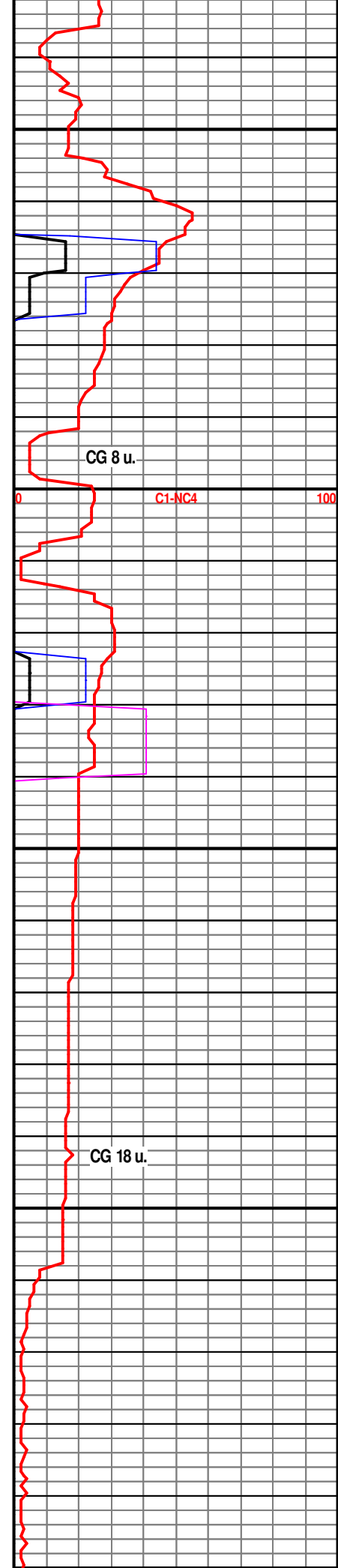
SD: 4895.00
Inc: 50.61
Azi: 181.51
TVD: 4729.09
VS: 481.82

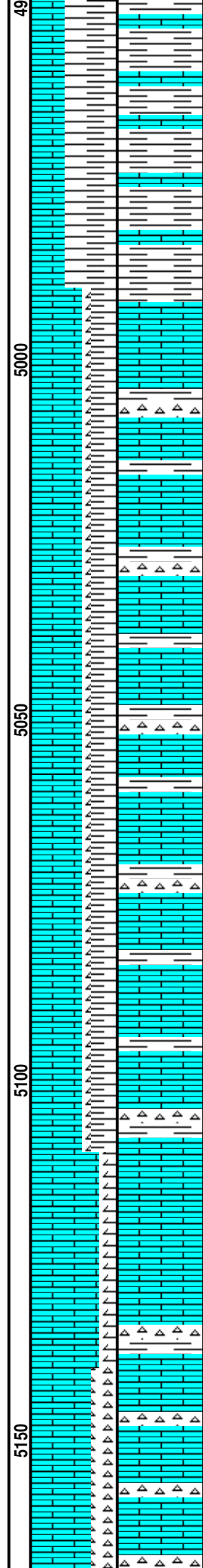
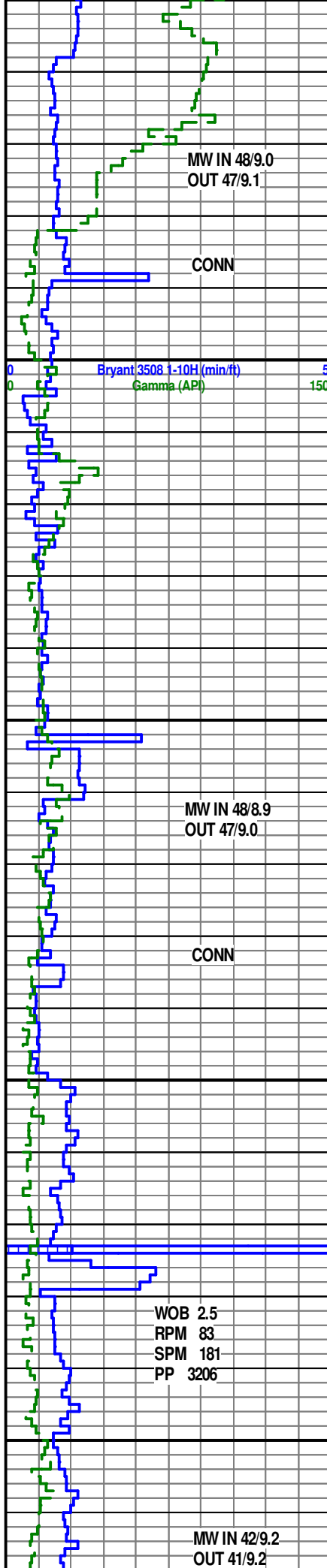
LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4927.00
Inc: 52.55
Azi: 181.70
TVD: 4748.97
VS: 506.87

LS: 40% Crm-Buff, lt Gy, off Wh,
frm, f xln, dull, frm, arg, SH: 60%
lt-med Gy, frm, blk, lam, rthy, no
flor, no ring/cut

SD: 4958.00
Inc: 55.84





Azi: 181.25
TVD: 4767.10
VS: 531.99

LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 60% lt-med Gy, frm, blk, lam, rthy, no flor, no ring/cut

**Mississippi @ 4,982'
MD, 4,780' TVD**

LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, SH: 30% lt-med Gy-dk Gy, frm, blk, rthy, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut

SD: 5022.00
Inc: 62.24
Azi: 179.52
TVD: 4799.83
VS: 586.94

LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, SH: 30% lt-med Gy-dk Gy, frm, blk, rthy, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut

SD: 5053.00
Inc: 65.40
Azi: 177.71
TVD: 4813.50
VS: 614.75

SD: 5085.00
Inc: 68.74
Azi: 177.05
TVD: 4825.97
VS: 644.20

LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, SH: 30% lt-med Gy-dk Gy, frm, blk, rthy, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut

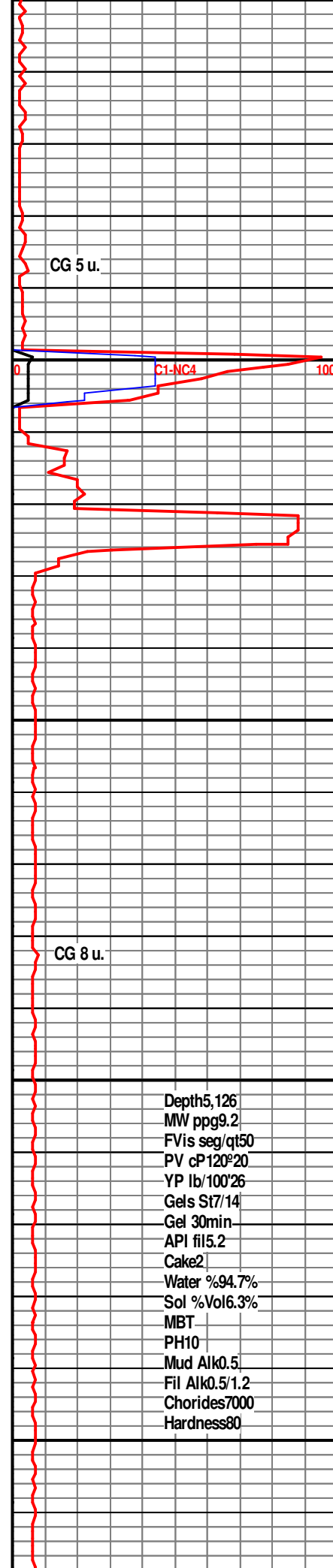
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, SH: 30% lt-med Gy-dk Gy, frm, blk, rthy, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut

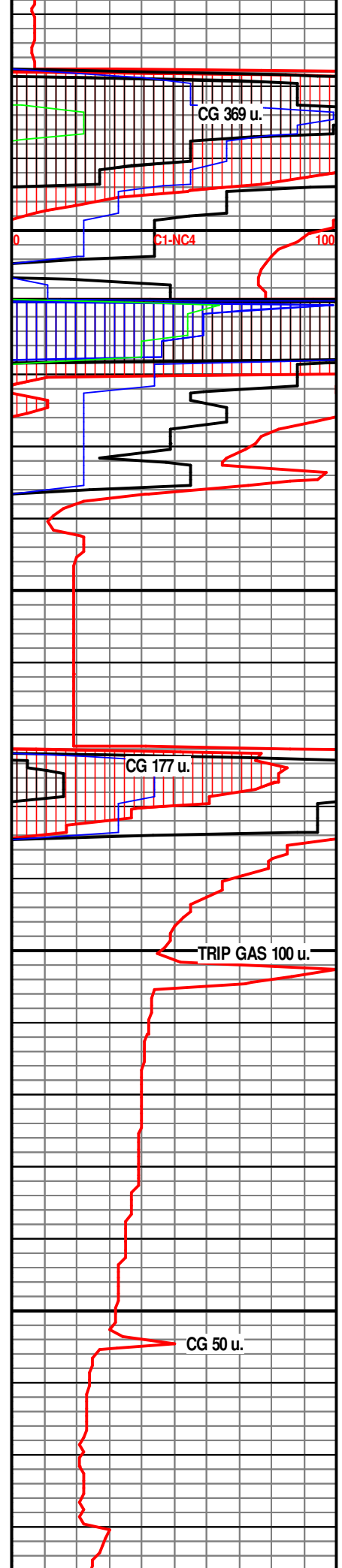
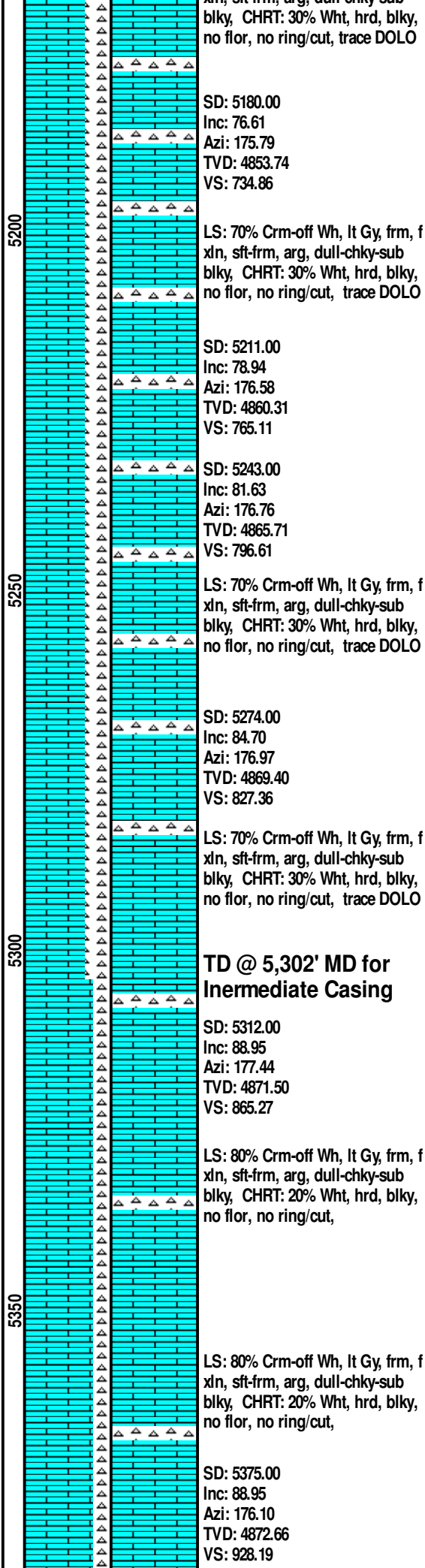
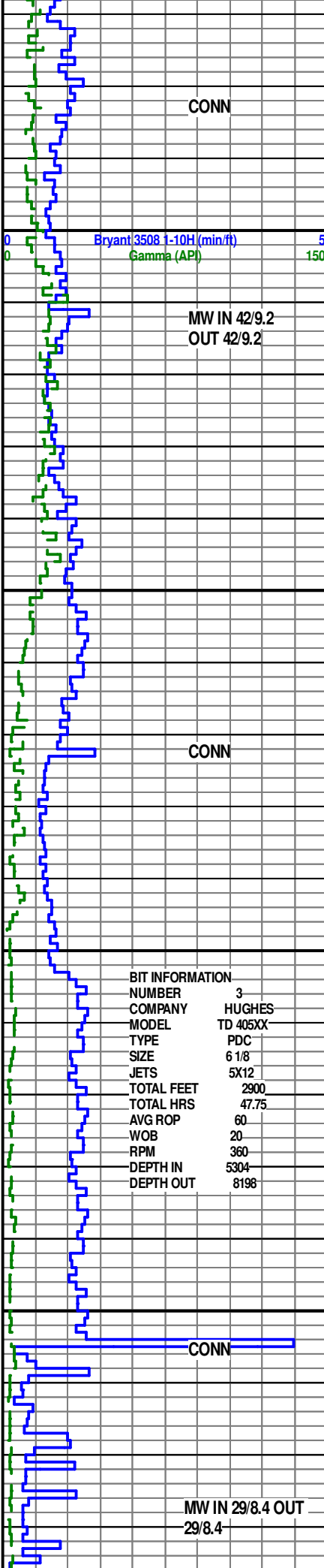
SD: 5117.00
Inc: 71.81
Azi: 176.68
TVD: 4836.77
VS: 674.29

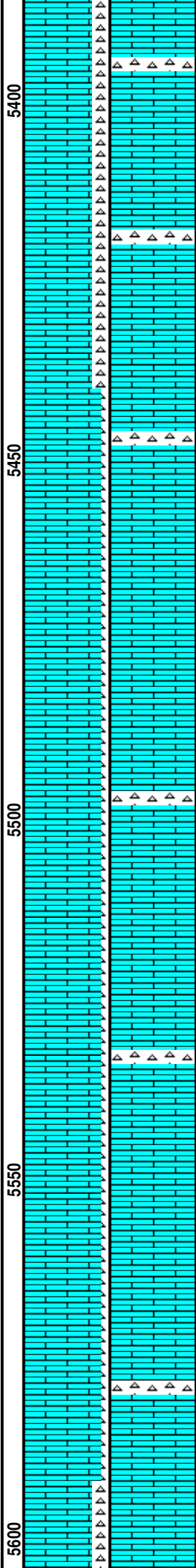
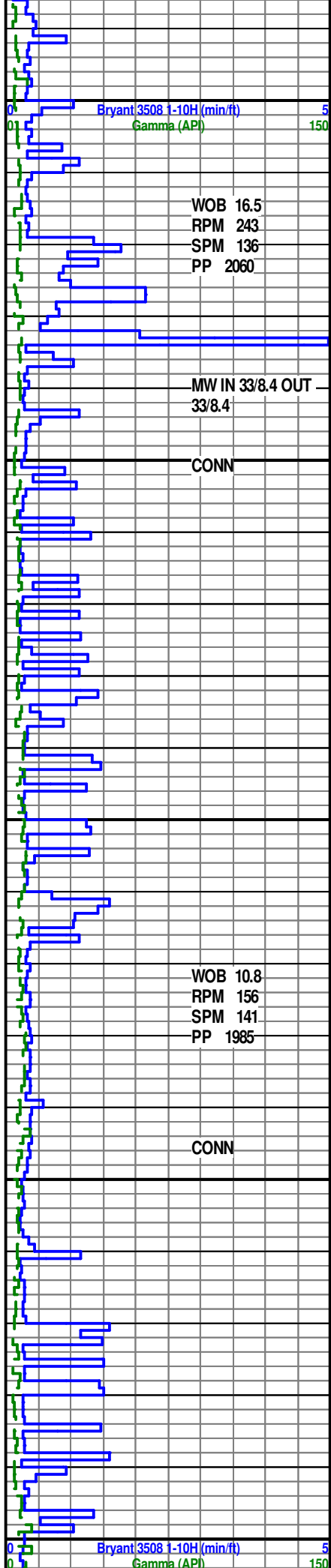
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, SH: 10% lt-med Gy-dk Gy, frm, blk, rthy, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut

SD: 5148.00
Inc: 74.48
Azi: 176.32
TVD: 4845.76
VS: 703.92

LS: 70% Crm-off Wh, lt Gy, frm, f xln sft-frm arg dull-chky-sub







LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blk, CHRT: 20% Wht, hrd, blk, no flor, no ring/cut,

SD: 5438.00
Inc: 89.94
Azi: 176.21
TVD: 4873.27
VS: 991.10

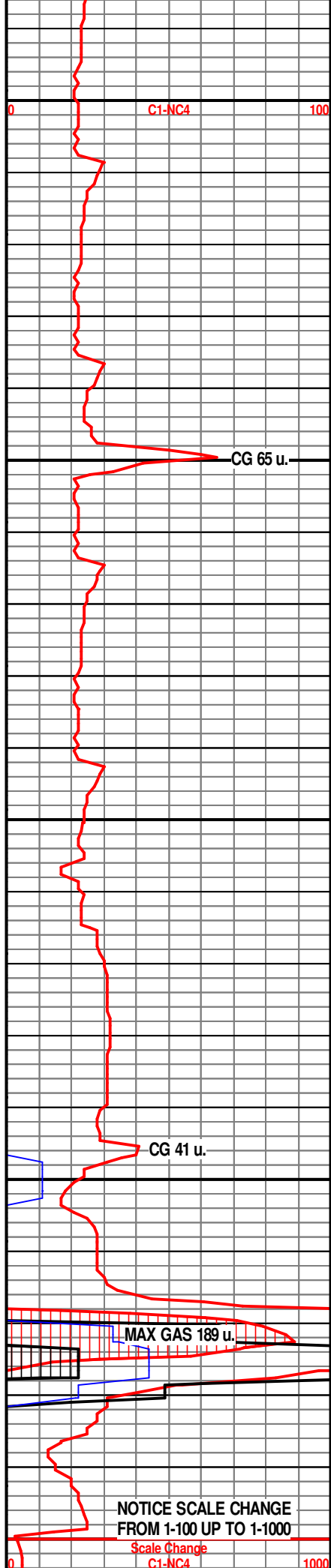
LS: 90% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull,sub blk, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut,

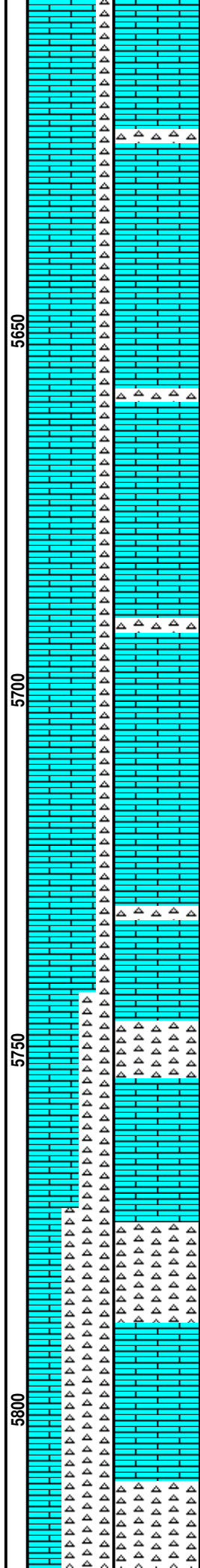
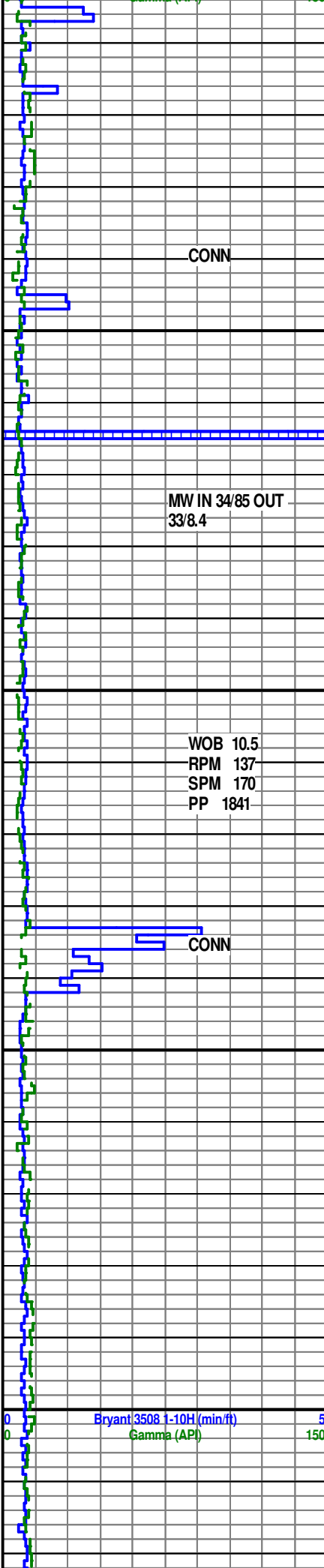
SD: 5502.00
Inc: 90.06
Azi: 177.00
TVD: 4873.27
VS: 1055.02

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull,sub blk, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut,

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull,sub blk, CHRT: 10% Wht, hrd, blk, no flor, no ring/cut,

SD: 5597.00
Inc: 90.46
Azi: 176.91
TVD: 4872.83





VS: 1149.94

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, no flor, no ring/cut,

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, no flor, no ring/cut,

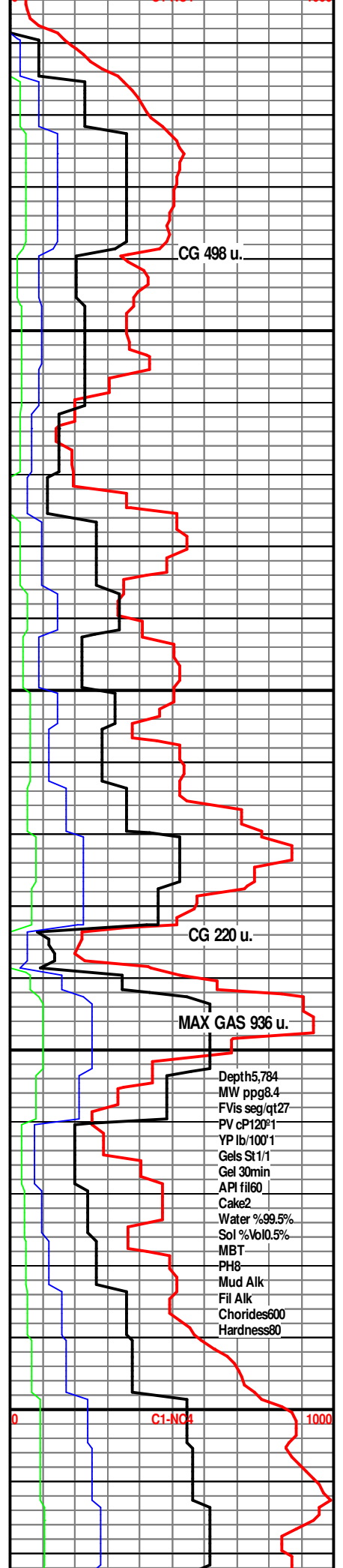
SD: 5691.00
Inc: 91.17
Azi: 176.94
TVD: 4871.50
VS: 1243.85

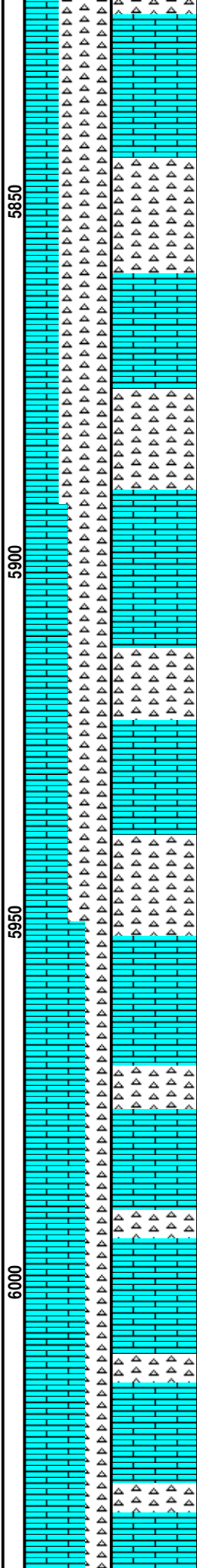
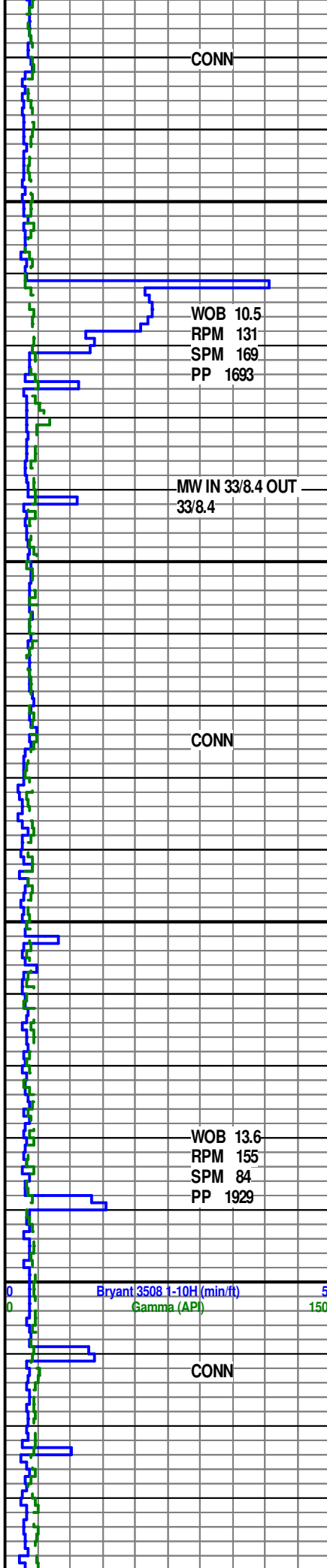
LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, no flor, no ring/cut,

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 40% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 5786.00
Inc: 89.69
Azi: 177.16
TVD: 4870.78
VS: 1338.77

LS: 40% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 60% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng





LS: 40% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 60% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

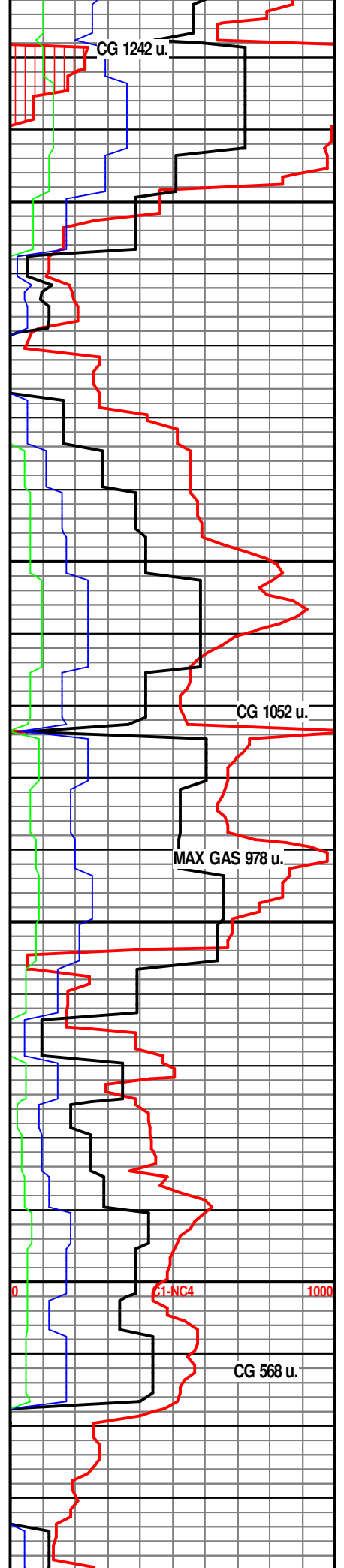
SD: 5880.00
Inc: 88.73
Azi: 178.27
TVD: 4872.08
VS: 1432.72

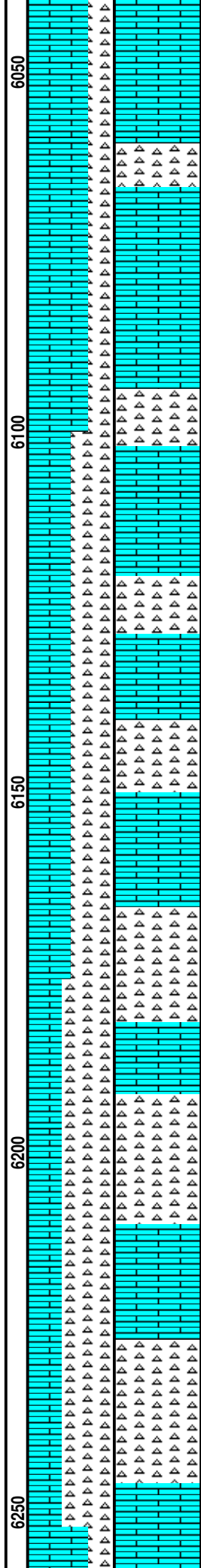
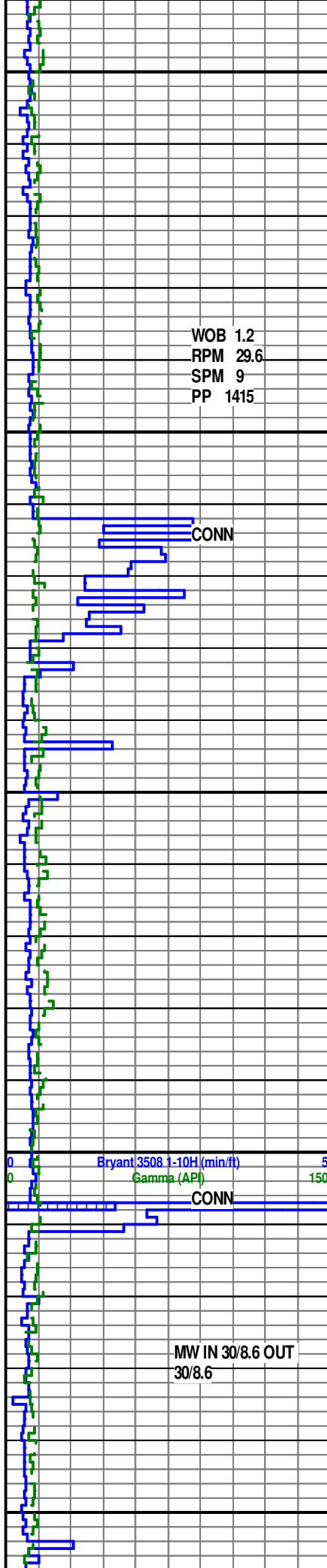
LS: 50% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 5975.00
Inc: 89.29
Azi: 178.11
TVD: 4873.72
VS: 1527.69

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng





LS: 70% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull, sub blk,
CHRT: 30% Wht, hrd, blk, lt YI
flor, brt Grn cut, lt YI rng

SD: 6070.00
Inc: 89.11
Azi: 177.42
TVD: 4875.05
VS: 1622.65

LS: 70% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull, sub blk,
CHRT: 30% Wht, hrd, blk, lt YI
flor, brt Grn cut, lt YI rng

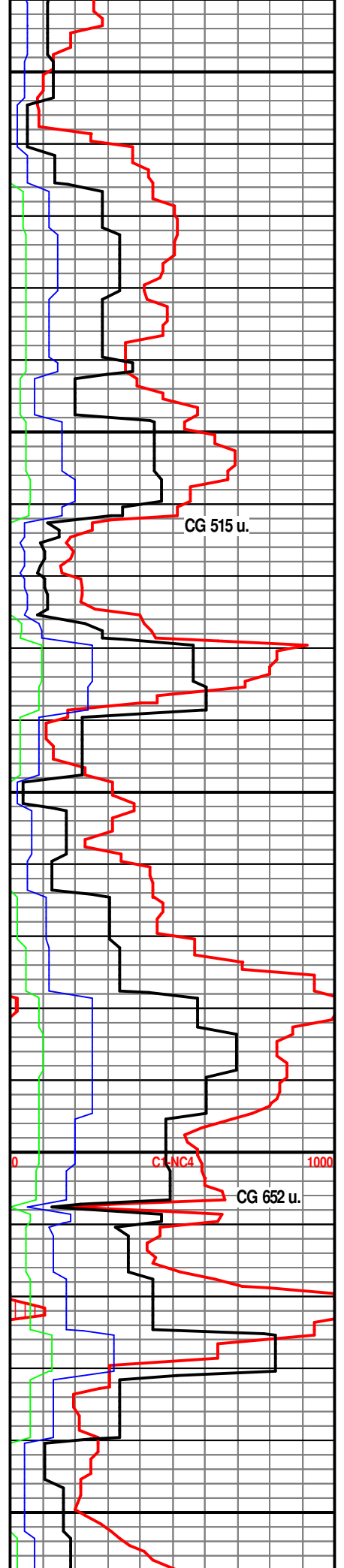
LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull, sub blk,
CHRT: 50% Wht, hrd, blk, lt YI
flor, brt Grn cut, lt YI rng

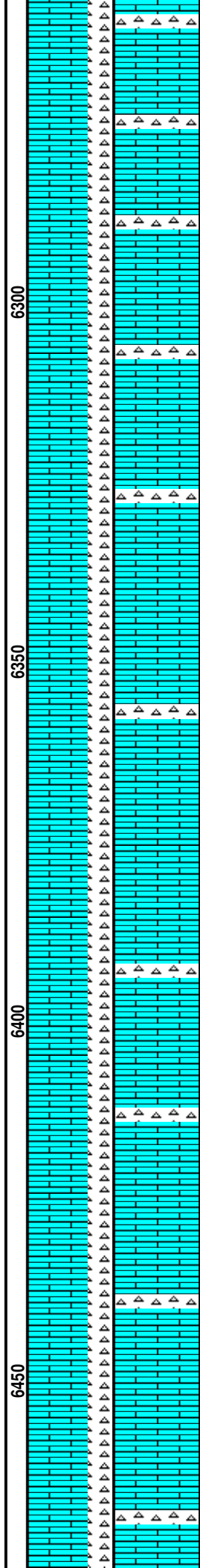
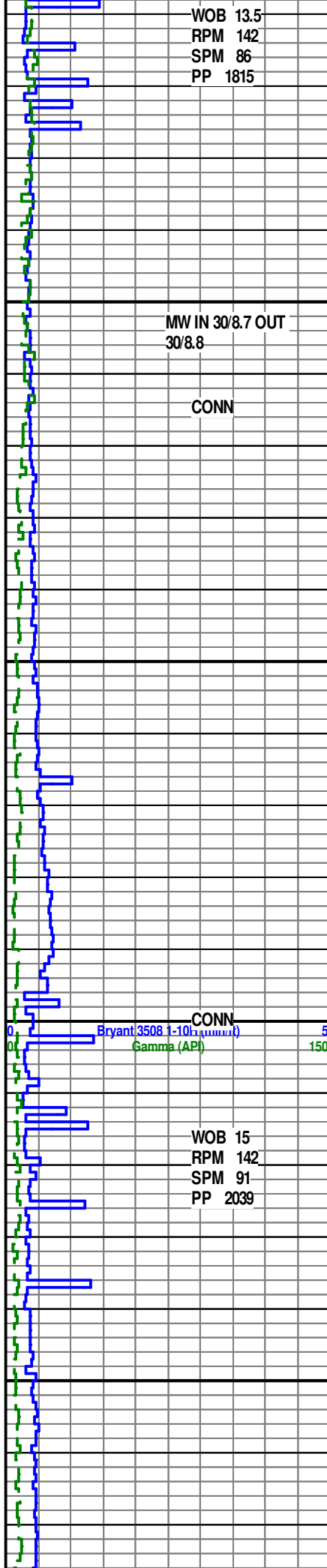
SD: 6165.00
Inc: 90.87
Azi: 179.87
TVD: 4875.07
VS: 1717.63

LS: 40% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull, sub blk,
CHRT: 60% Wht, hrd, blk, lt YI
flor, brt Grn cut, lt YI rng

LS: 40% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull, sub blk,
CHRT: 60% Wht, hrd, blk, lt YI
flor, brt Grn cut, lt YI rng

SD: 6260.00
Inc: 91.27
Azi: 179.87





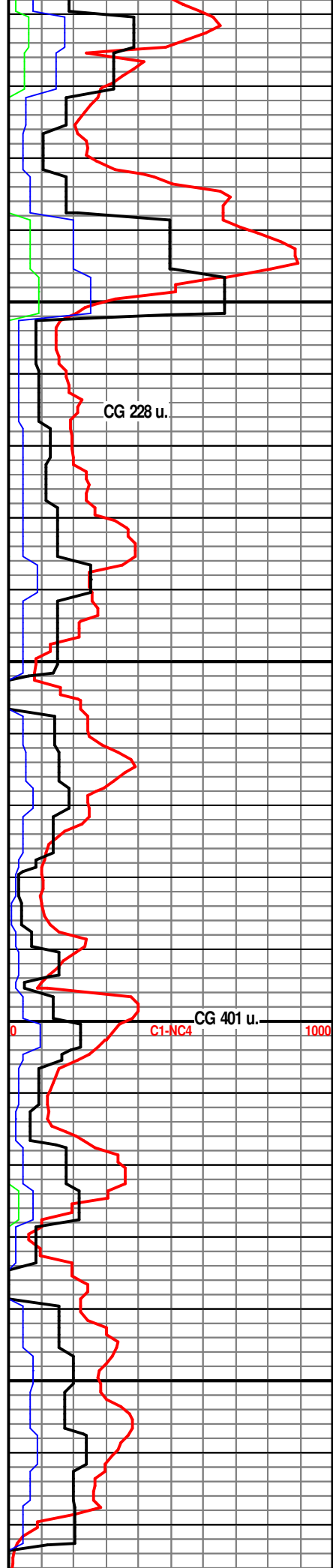
Azi: 179.37
TVD: 4873.29
VS: 1812.61

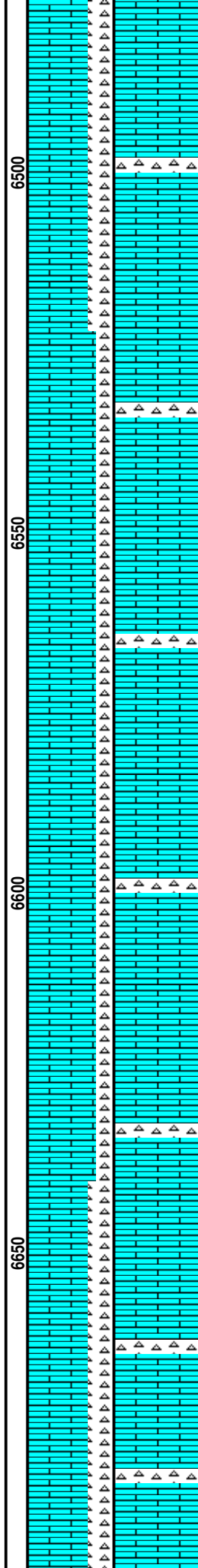
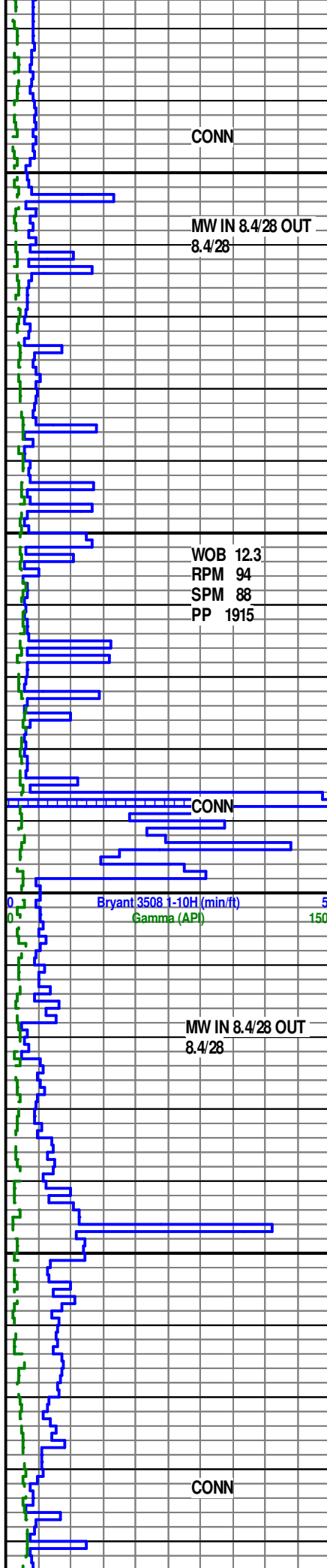
LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 6355.00
Inc: 91.11
Azi: 178.45
TVD: 4871.32
VS: 1907.59

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 6450.00
Inc: 90.41
Azi: 179.80
TVD: 4870.06
VS: 2002.58





LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 6544.00
Inc: 87.86
Azi: 179.17
TVD: 4871.48
VS: 2096.56

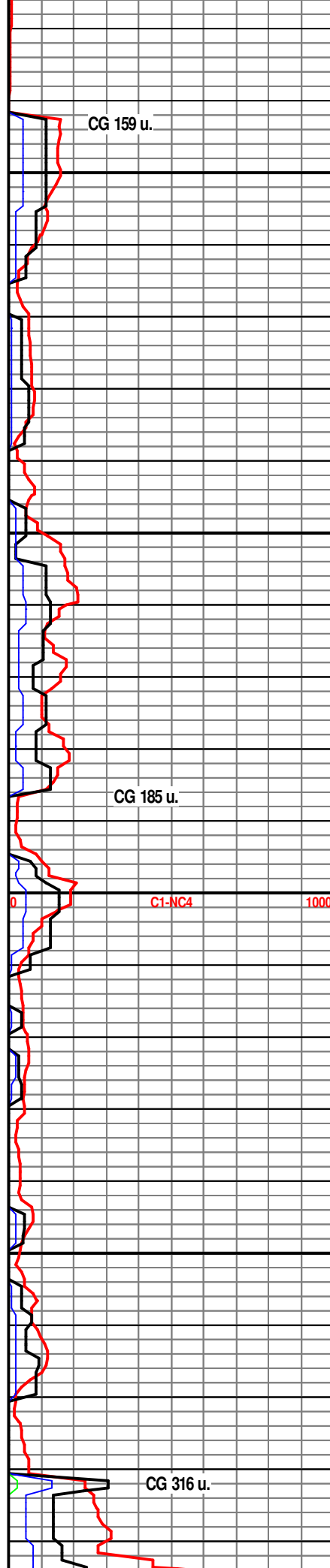
LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

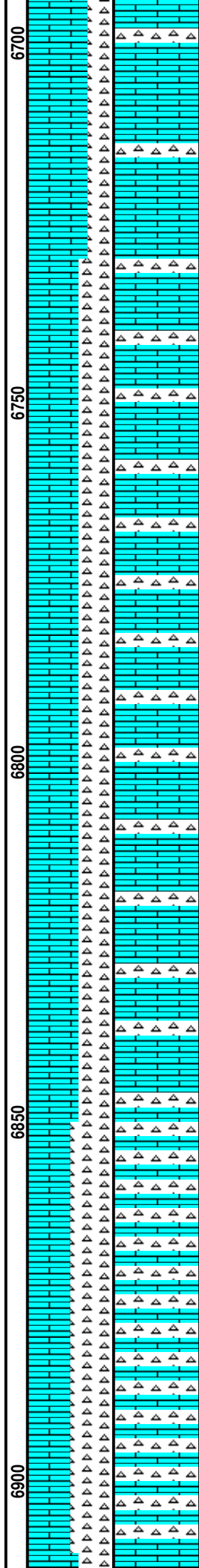
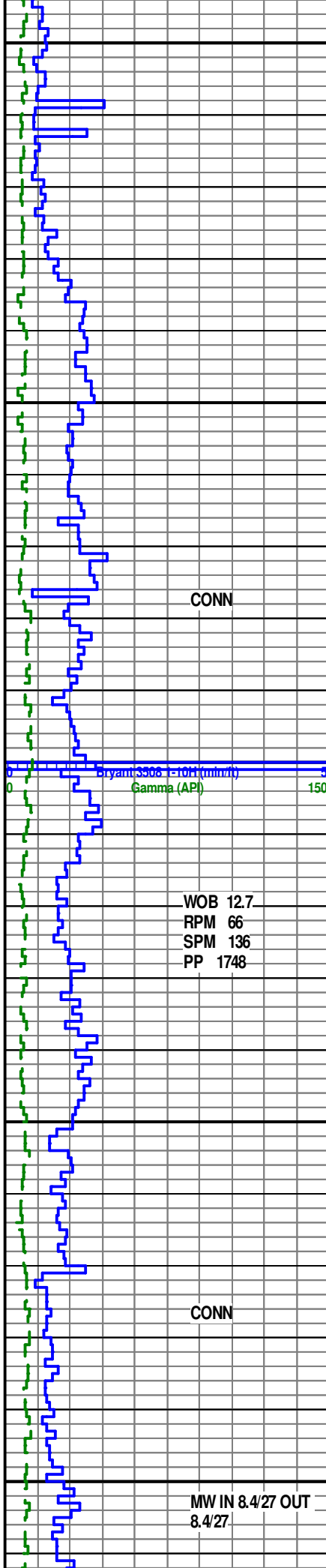
LS: 80% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, brt Grn cut, lt YI rng

SD: 6639.00
Inc: 91.24
Azi: 180.12
TVD: 4872.22
VS: 2191.54

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, no flor, no ring/cut

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, no flor, no ring/cut





LS: 70% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT:30% Wht, hrd, blk, no flor,
no ring/cut

SD: 6734.00
Inc: 90.82
Azi: 179.50
TVD: 4870.52
VS: 2286.52

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, no flor,
no ring/cut

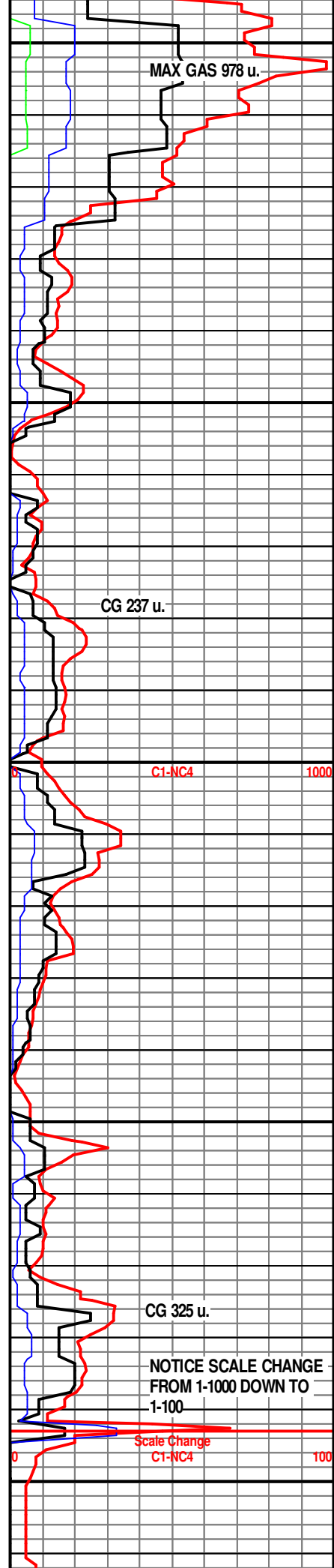
LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, no flor,
no ring/cut

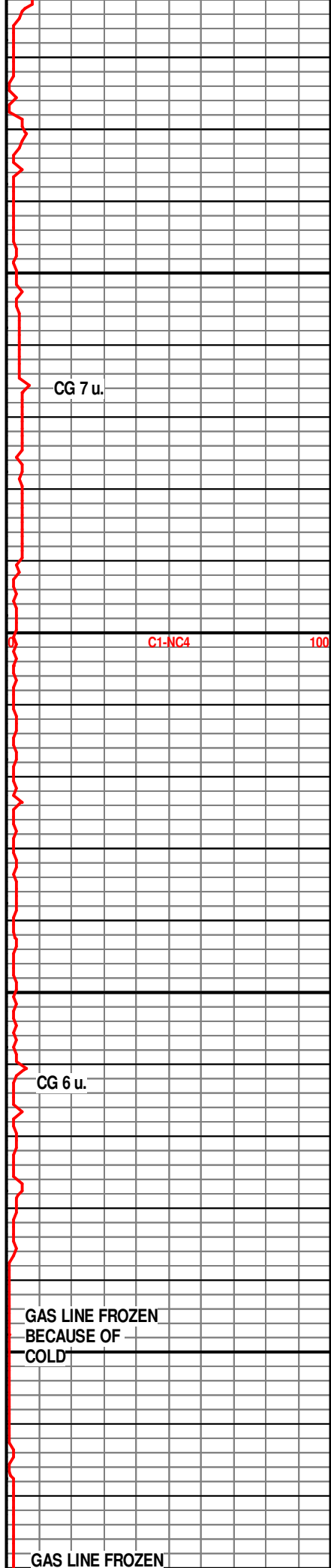
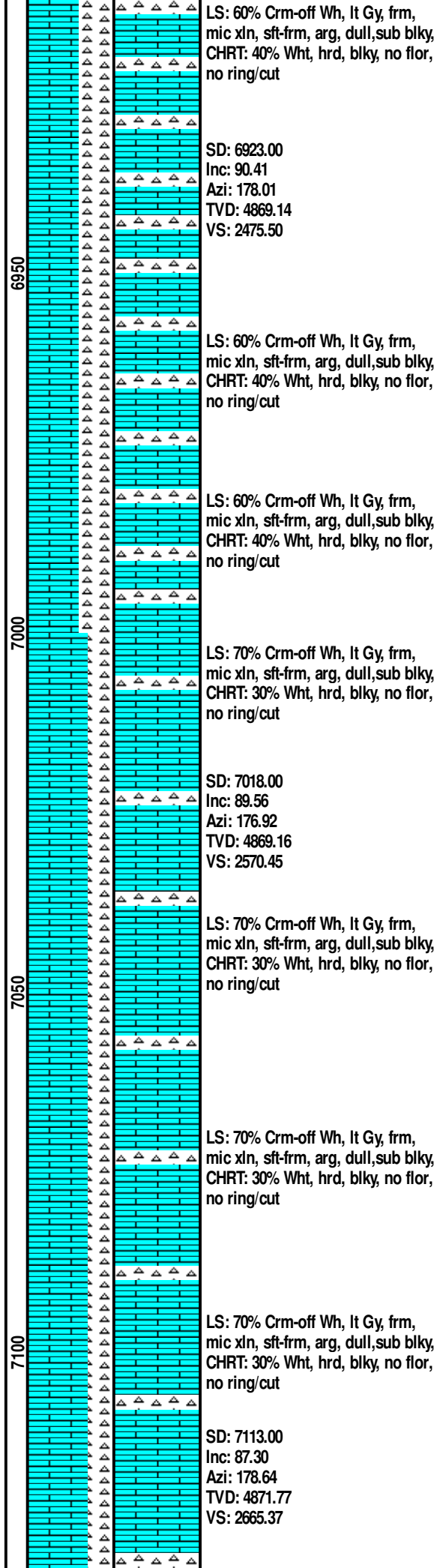
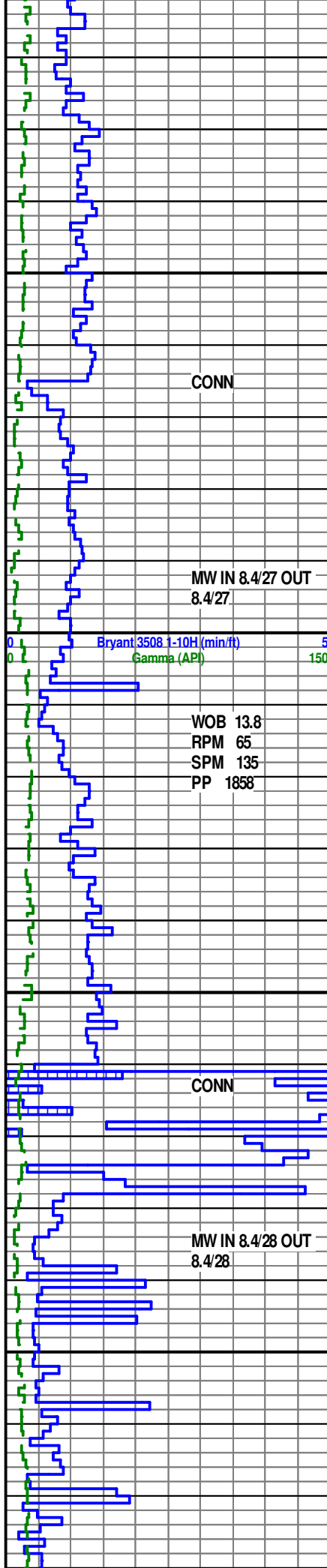
SD: 6828.00
Inc: 90.22
Azi: 178.80
TVD: 4869.66
VS: 2380.51

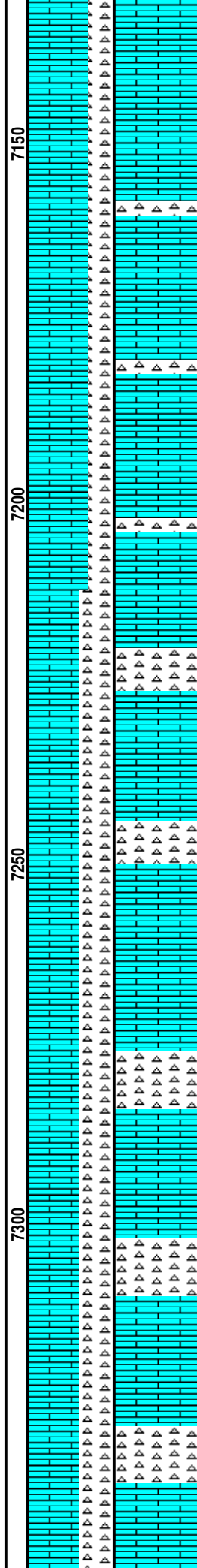
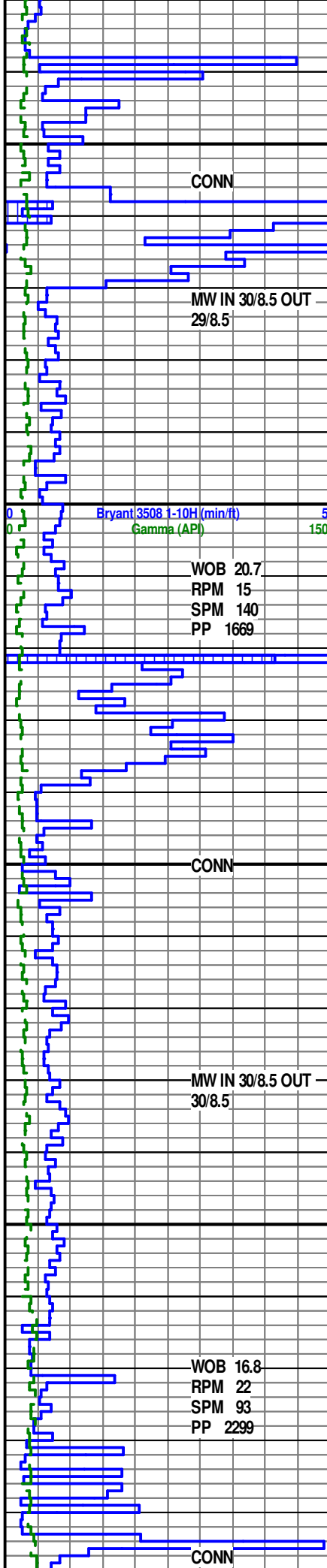
LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, no flor,
no ring/cut

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, no flor,
no ring/cut

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, no flor,
no ring/cut







LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, no flr, no ring/cut

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, no flr, no ring/cut

SD: 7208.00
Inc: 88.14
Azi: 180.53
TVD: 4875.55
VS: 2760.29

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 40% Wht, hrd, blk, lt Yl flr, no rng, Grn cut

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 40% Wht, hrd, blk, lt Yl flr, no rng, Grn cut

SD: 7302.00
Inc: 90.83
Azi: 182.28
TVD: 4876.39
VS: 2854.21

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, sft-frm, arg, dull, sub blk, CHRT: 40% Wht, hrd, blk, lt Yl flr, no rng, Grn cut

BECAUSE OF COLD

CG 3 u.

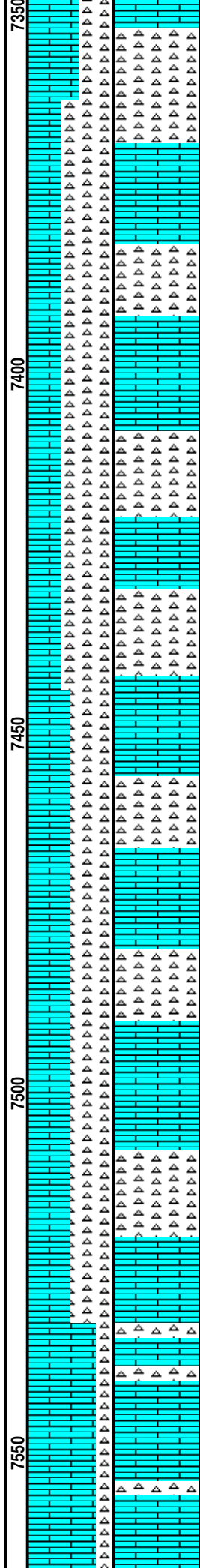
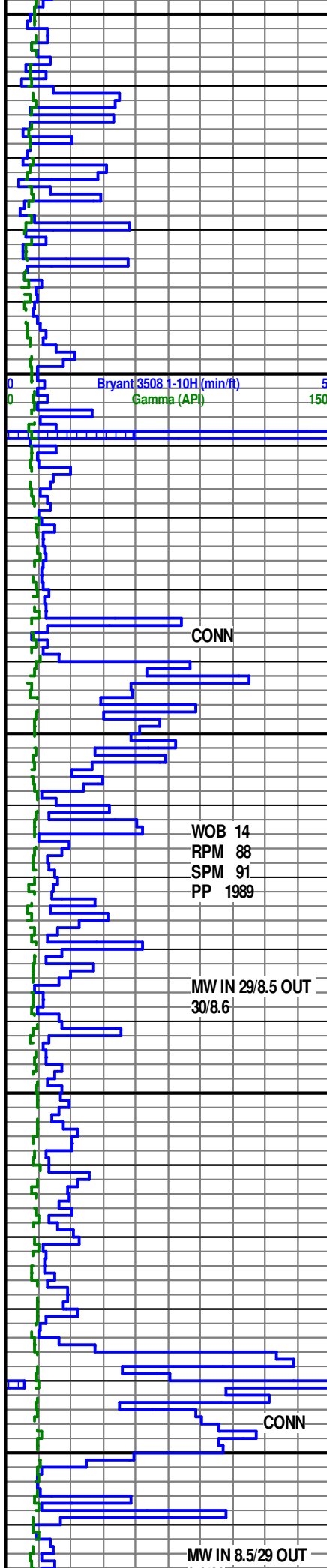
GAS LINE FROZEN BECAUSE OF COLD

Depth 7,218
MW ppg 8.4
FVis seg/qt 27
PV cP 120°
01/01/13
YP lb/100°
01/01/13
Gels St 1/1
Gel 30min
API fil 60
Cake 2
Water % 99.5%
Sol % Vol 0.5%
MBT
PH 8
Mud Alk
Fil Alk
Chorides 200
Hardness 120

Scale Change
C1-NC4 300

CG 424 u.

MAX GAS 211 u.



LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

SD: 7397.00
Inc: 89.29
Azi: 180.67
TVD: 4876.29
VS: 2949.13

LS: 40% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

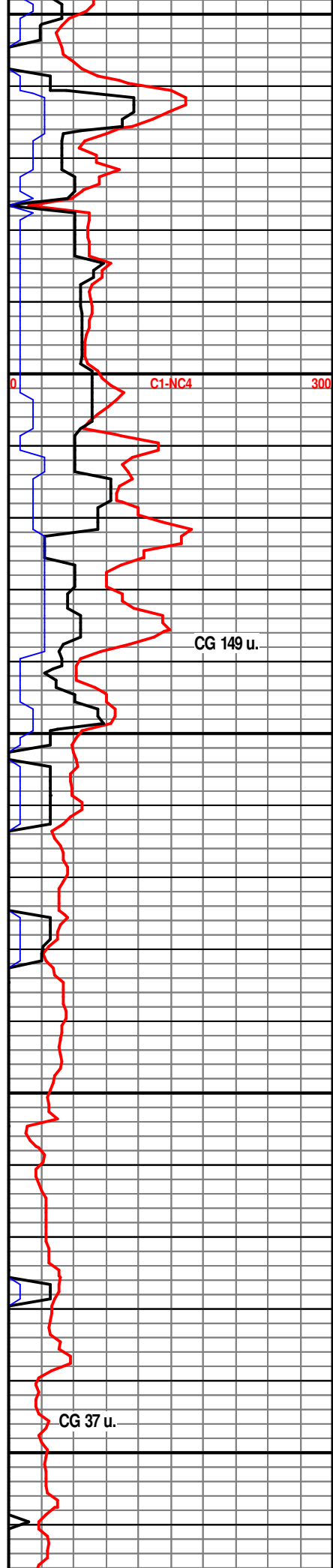
LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

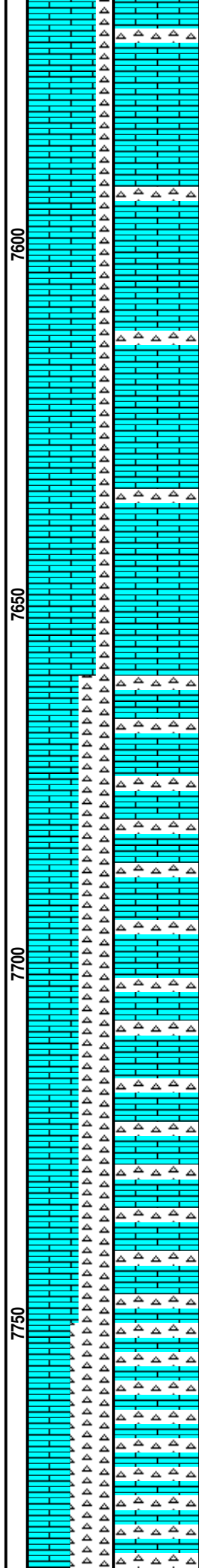
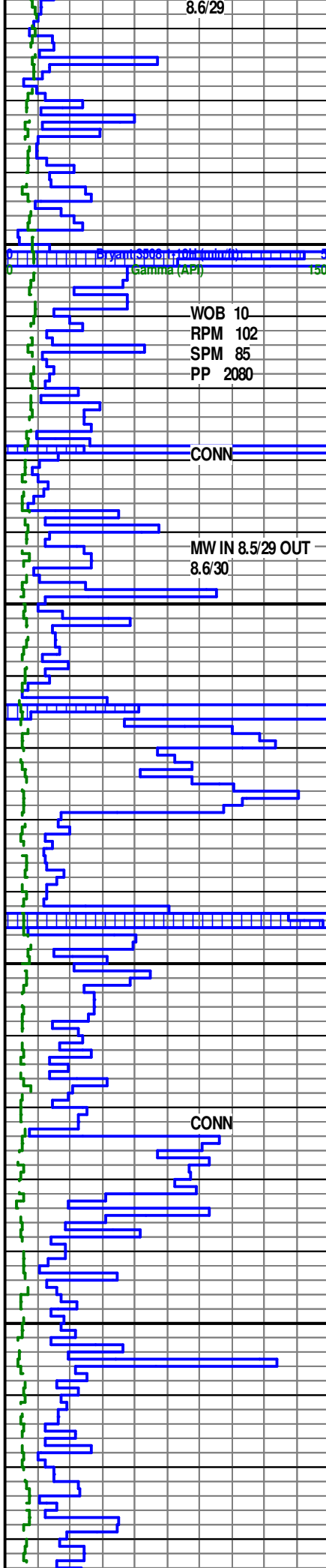
SD: 7491.00
Inc: 88.89
Azi: 180.72
TVD: 4877.79
VS: 3043.09

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, sft-frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

SD: 7555.00
Inc: 89.26
Azi: 181.98
TVD: 4878.82
VS: 3107.04

LS: 80% Crm-off Wh, lt Gy, frm,





mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, It YI
flor, no rng, Grn cut

SD: 7618.00
Inc: 89.85
Azi: 182.11
TVD: 4879.31
VS: 3169.97

LS: 80% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, It YI
flor, no rng, Grn cut

LS: 80% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, It YI
flor, no rng, Grn cut

SD: 7681.00
Inc: 88.64
Azi: 180.29
TVD: 4880.14
VS: 3232.92

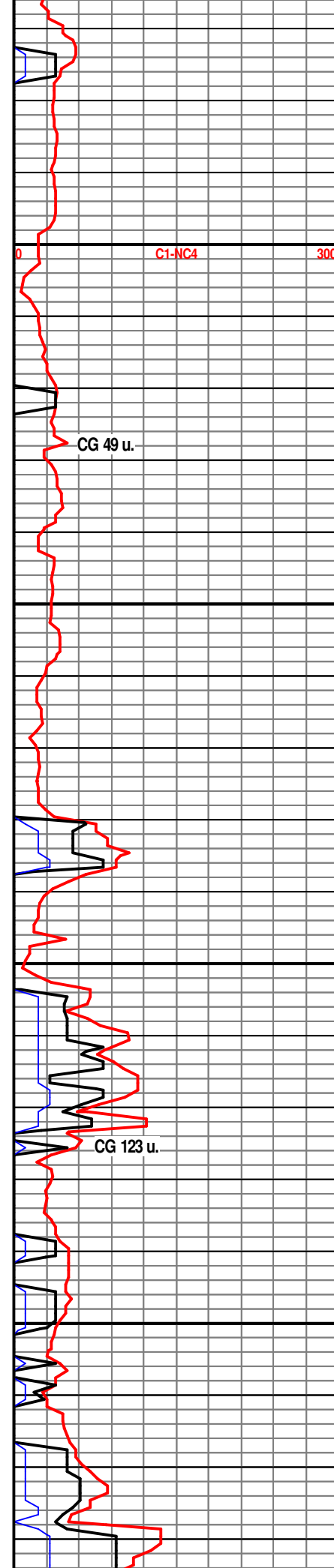
LS: 60% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, It YI
flor, no rng, Grn cut

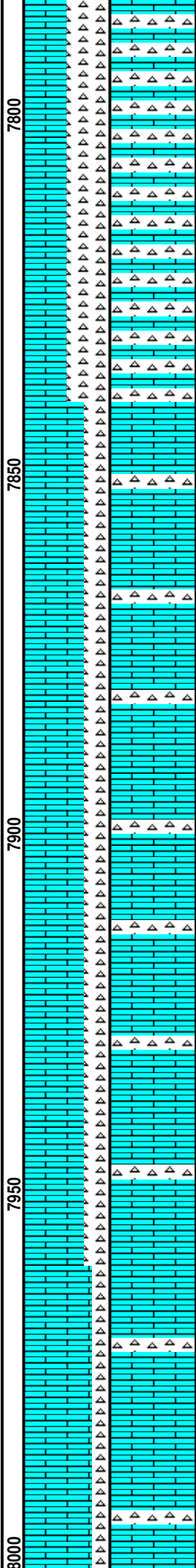
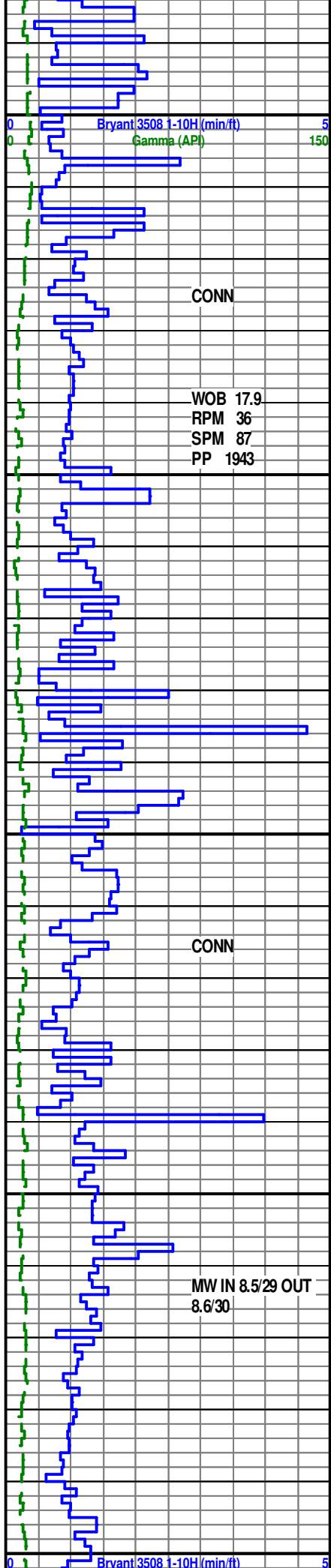
LS: 60% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, It YI
flor, no rng, Grn cut

SD: 7744.00
Inc: 91.09
Azi: 182.84
TVD: 4880.29
VS: 3295.87

LS: 60% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 40% Wht, hrd, blk, It YI
flor, no rng, Grn cut

LS: 50% Crm-off Wh, It Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 50% Wht, hrd, blk, It YI
flor, no rng, Grn cut





LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 50% Wht, hrd, blk, lt YI flor, no rng, Grn cut

SD: 7807.00
Inc: 91.02
Azi: 182.15
TVD: 4879.13
VS: 3358.76

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 50% Wht, hrd, blk, lt YI flor, no rng, Grn cut

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, no rng, Grn cut

SD: 7871.00
Inc: 90.38
Azi: 181.15
TVD: 4878.35
VS: 3422.70

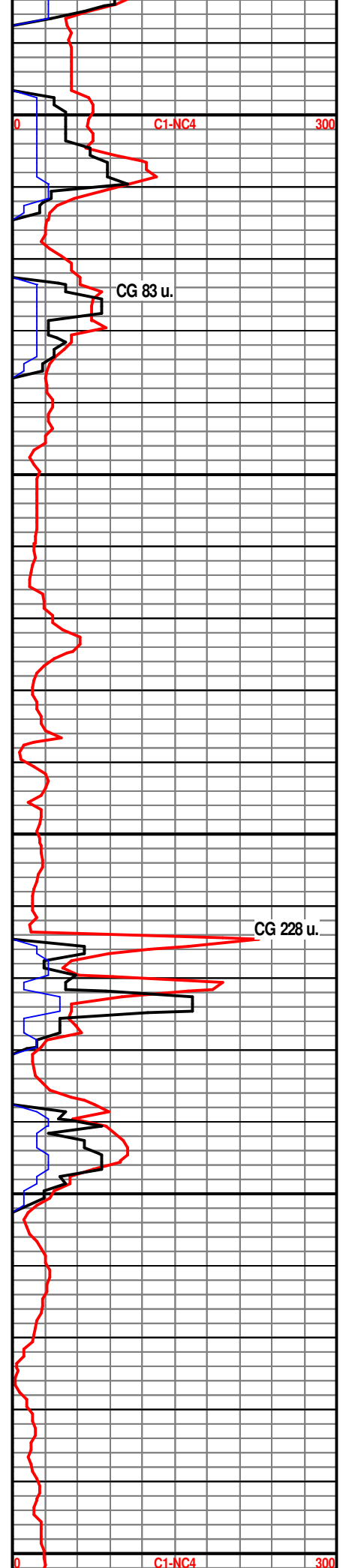
LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, no rng, Grn cut

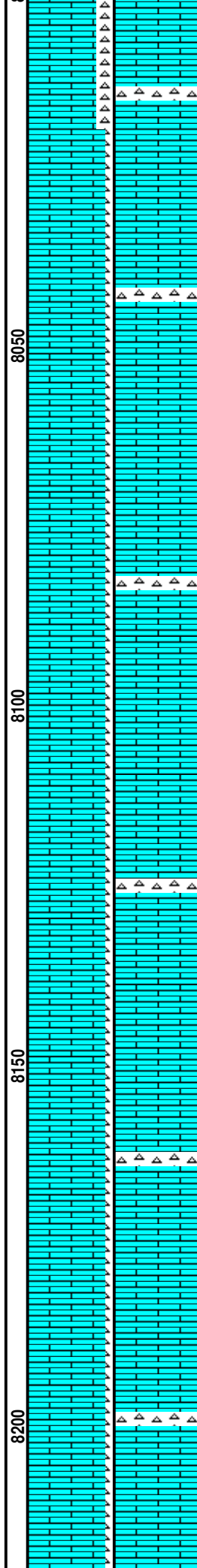
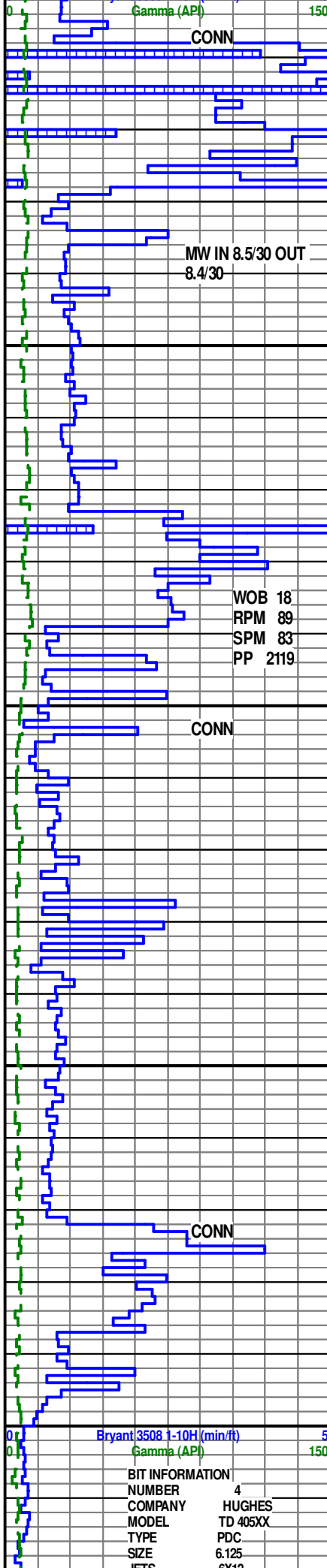
LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, no rng, Grn cut

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, no rng, Grn cut

SD: 7966.00
Inc: 88.21
Azi: 182.04
TVD: 4879.51
VS: 3517.61

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, no rng, Grn cut





LS: 80% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, no rng, Grn cut

SD: 8029.00
Inc: 89.85
Azi: 182.00
TVD: 4880.58
VS: 3580.53

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt YI flor, no rng, Grn cut

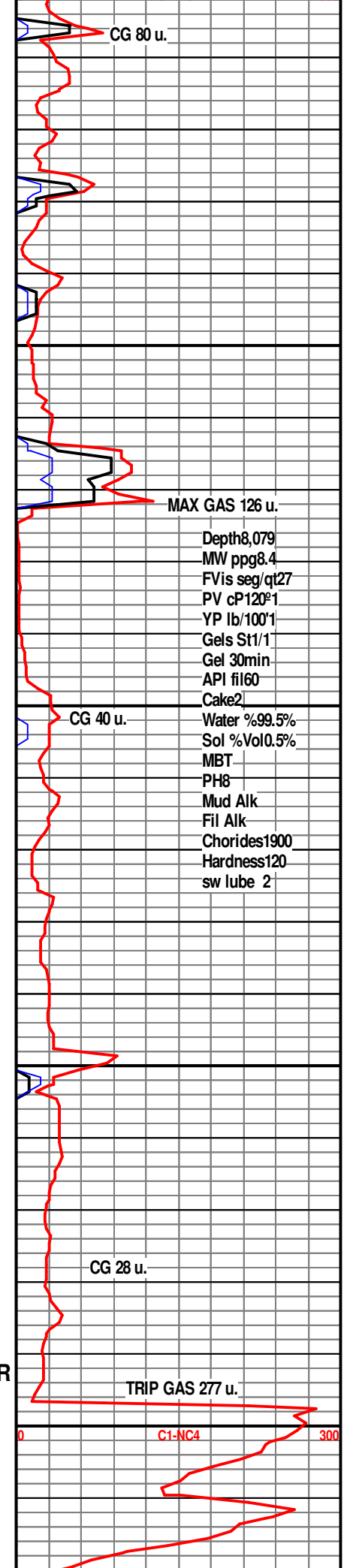
SD: 8092.00
Inc: 91.06
Azi: 181.43
TVD: 4880.08
VS: 3643.47

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt YI flor, no rng, Grn cut

SD: 8181.00
Inc: 89.85
Azi: 179.61
TVD: 4879.37
VS: 3732.44

TOOH @ 8,197' MD FOR NEW BIT

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt YI flor, no rng, Grn cut



SEIS
TOTAL FEET 2647
TOTAL HRS 40
AVG ROP 66
WOB 14
RPM 289
DEPTH IN 8198
DEPTH OUT 10845

WOB 6.4
RPM 36
SPM 168
PP 2392

CONN

MW IN 8.5/28 OUT
8.5/28

WOB 13.8
RPM 131
SPM 91
PP 2765

CONN

Bryant 3508 1-10H (min/ft)
Gamma (API)

8250

8300

8350

8400

SD: 8228.00
Inc: 91.18
Azi: 179.94
TVD: 4878.95
VS: 3779.44

LS: 90% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 10% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

LS: 80% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

SD: 8289.00
Inc: 92.86
Azi: 179.80
TVD: 4876.80
VS: 3840.39

LS: 80% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

LS: 80% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 20% Wht, hrd, blk, lt YI
flor, no rng, Grn cut

SD: 8381.00
Inc: 92.54
Azi: 179.58
TVD: 4872.47
VS: 3932.29

LS: 70% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk,
CHRT: 30% Wht, hrd, blk, lt YI
flor, YI rng, Wht cut

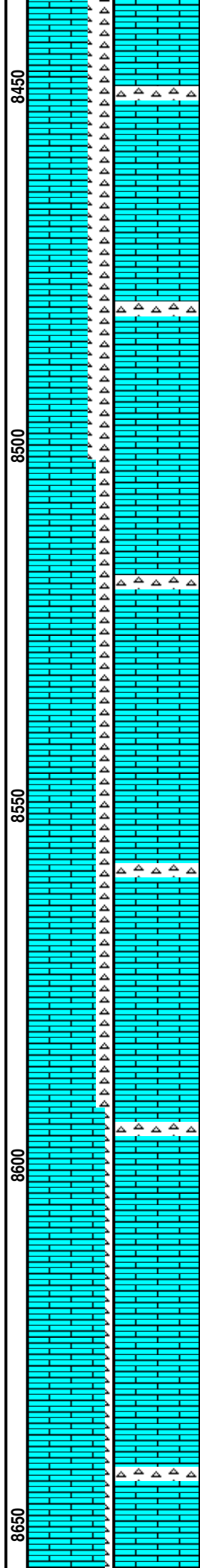
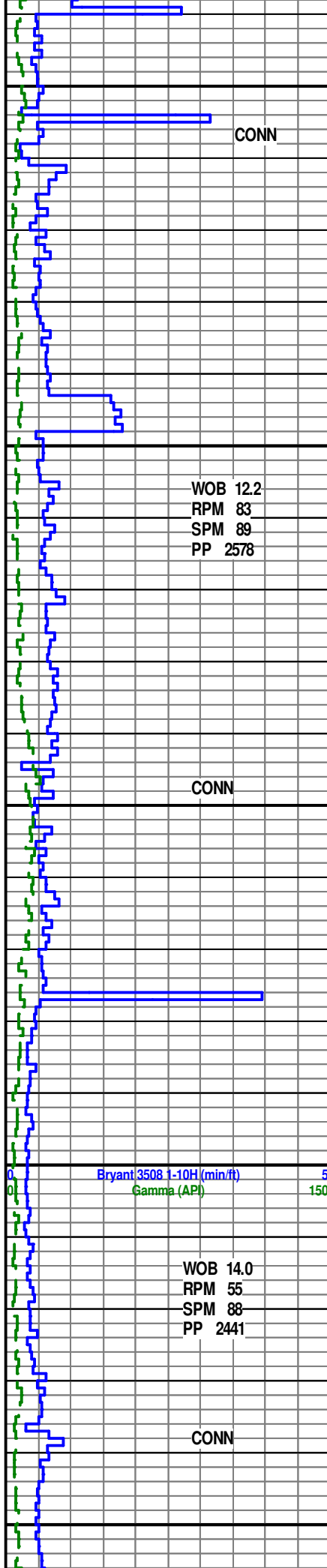
SD: 8442.00

CG 174 u.

CG 132 u.

C1-NC4

MAX GAS 184
u.



Inc: 91.95
Azi: 179.20
TVD: 4870.08
VS: 3993.24

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 30% Wht, hrd, blk, lt YI flor, YI rng, Wht cut

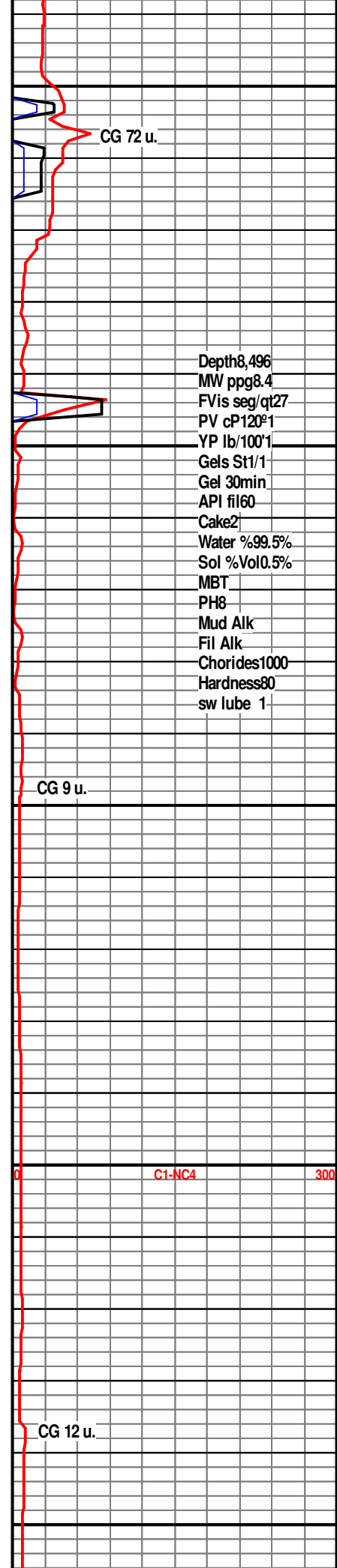
SD: 8503.00
Inc: 90.83
Azi: 179.56
TVD: 4868.60
VS: 4054.22

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, YI rng, no cut

LS: 80% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 20% Wht, hrd, blk, lt YI flor, YI rng, no cut

SD: 8594.00
Inc: 91.68
Azi: 179.03
TVD: 4866.60
VS: 4145.20

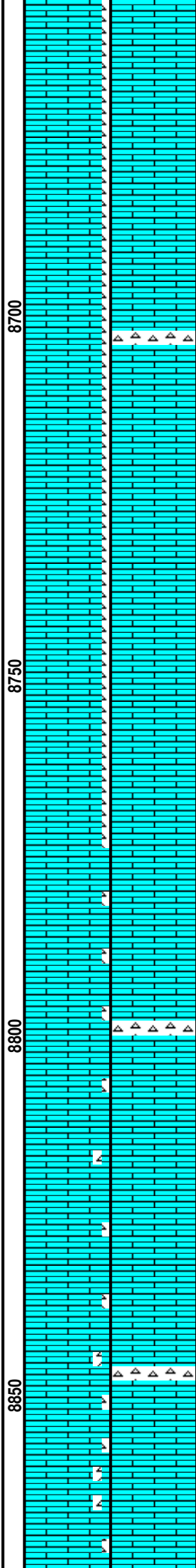
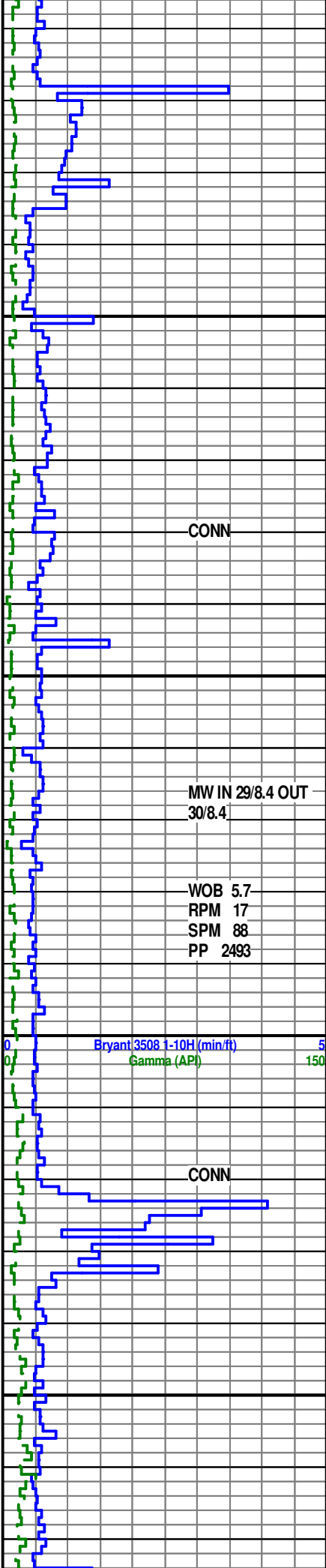
LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt YI flor, YI rng, no cut



Depth 8,496
MW ppg 8.4
FVis seg/qt 27
PV cP 120^o 1
YP lb/100^o 1
Gels St 1/1
Gel 30min
API fil 60
Cake 2
Water % 99.5%
Sol % Vol 0.5%
MBT
PH 8
Mud Alk
Fil Alk
Chorides 1000
Hardness 80
sw lube 1

C1-NC4

300



SD: 8686.00
Inc: 90.49
Azi: 179.23
TVD: 4864.86
VS: 4237.18

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

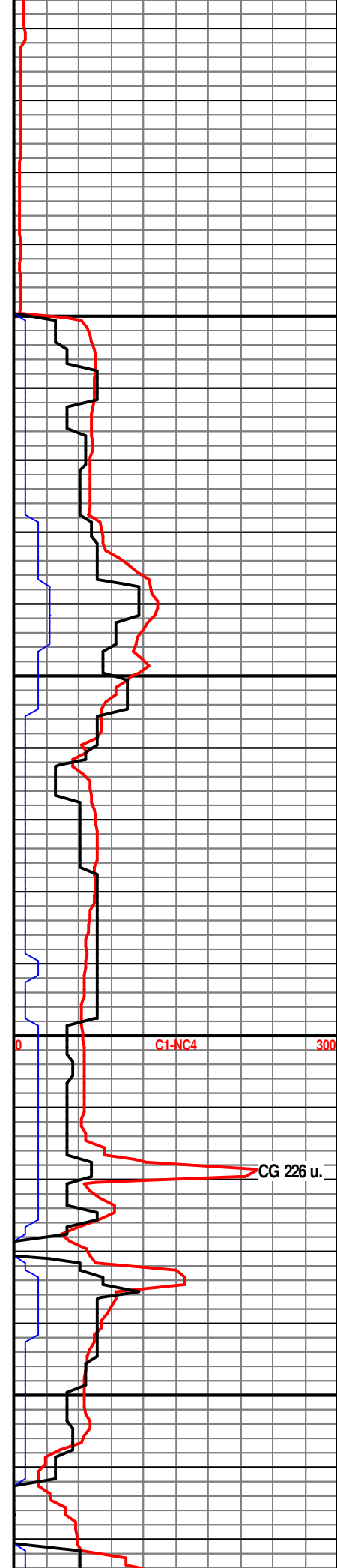
LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

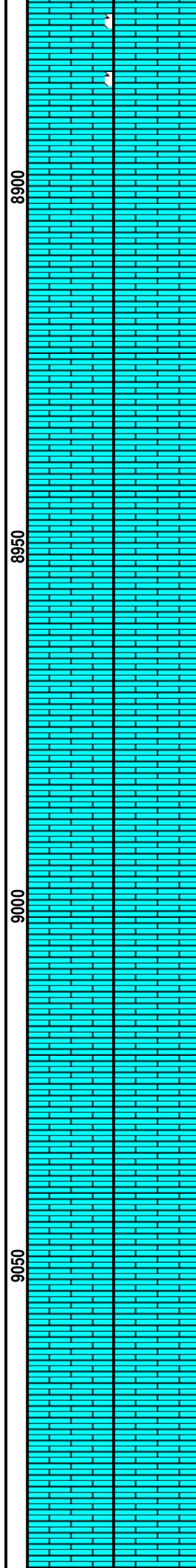
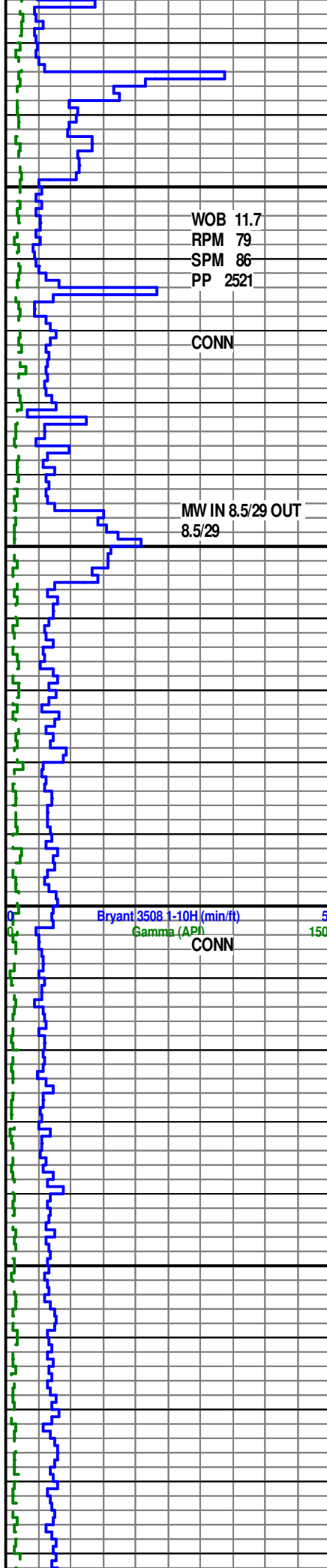
SD: 8778.00
Inc: 91.06
Azi: 178.93
TVD: 4863.62
VS: 4329.17

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 8870.00
Inc: 90.83
Azi: 179.21
TVD: 4862.10
VS: 4421.16





LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 8901.00
Inc: 89.60
Azi: 179.65
TVD: 4861.98
VS: 4452.16

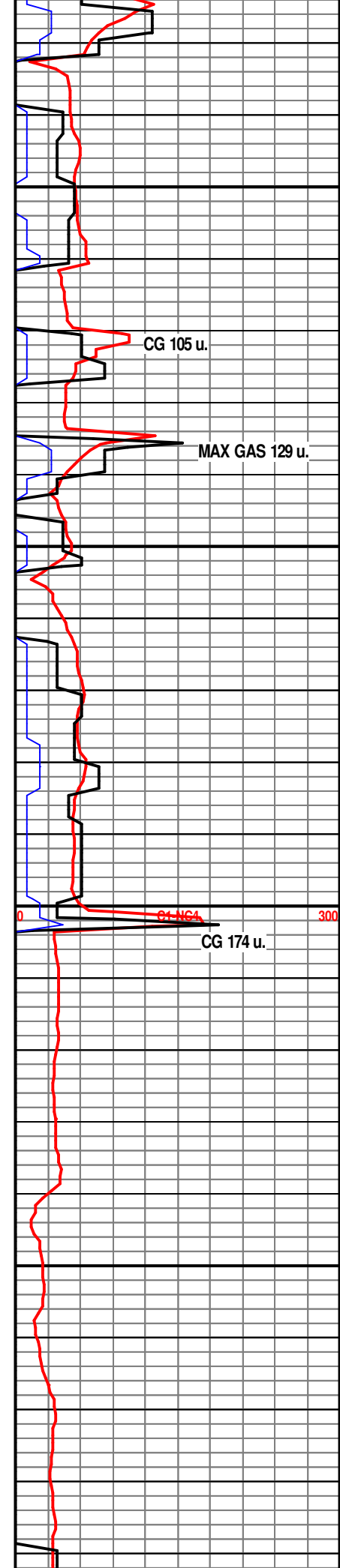
LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

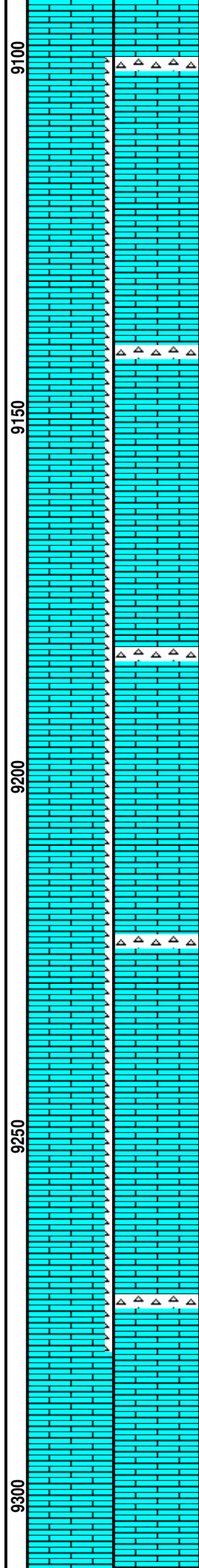
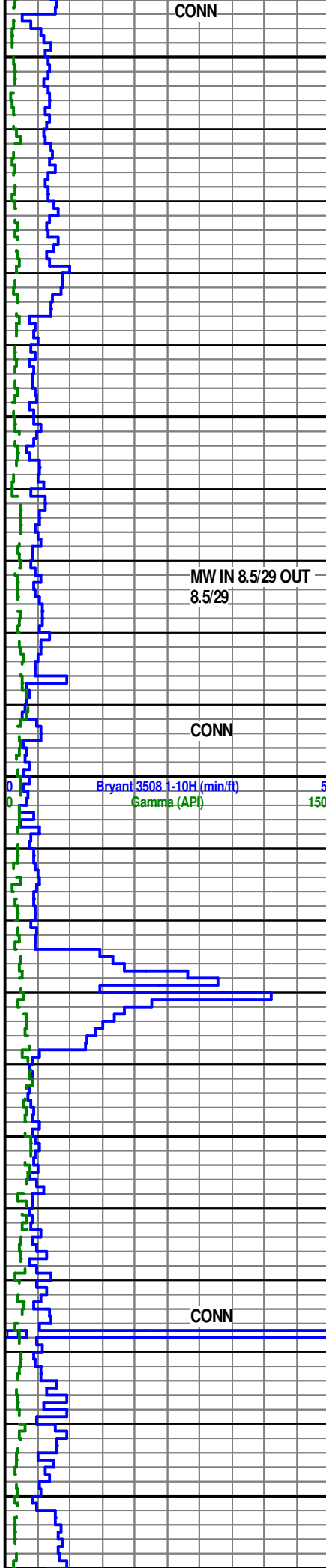
SD: 8962.00
Inc: 89.10
Azi: 181.01
TVD: 4862.68
VS: 4513.14

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

SD: 9053.00
Inc: 89.63
Azi: 179.90
TVD: 4863.69
VS: 4604.12

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut





LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 9145.00
Inc: 90.06
Azi: 179.43
TVD: 4863.93
VS: 4696.11

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

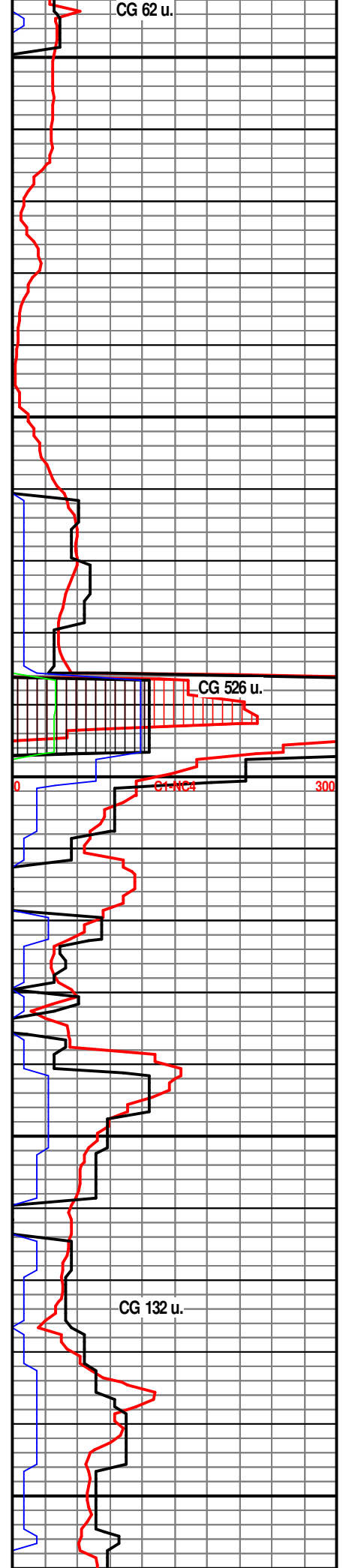
SD: 9237.00
Inc: 89.41
Azi: 179.28
TVD: 4864.36
VS: 4788.11

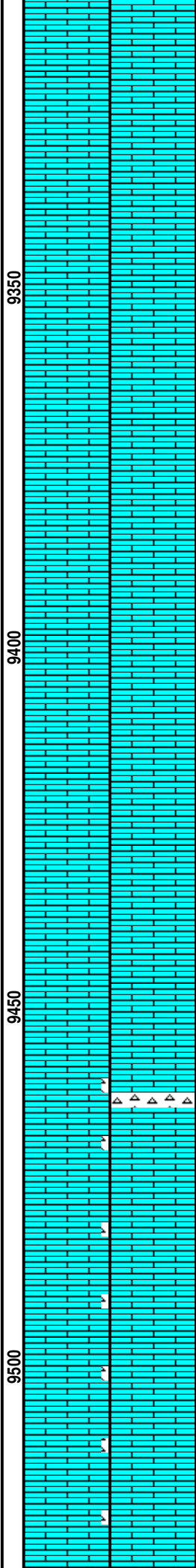
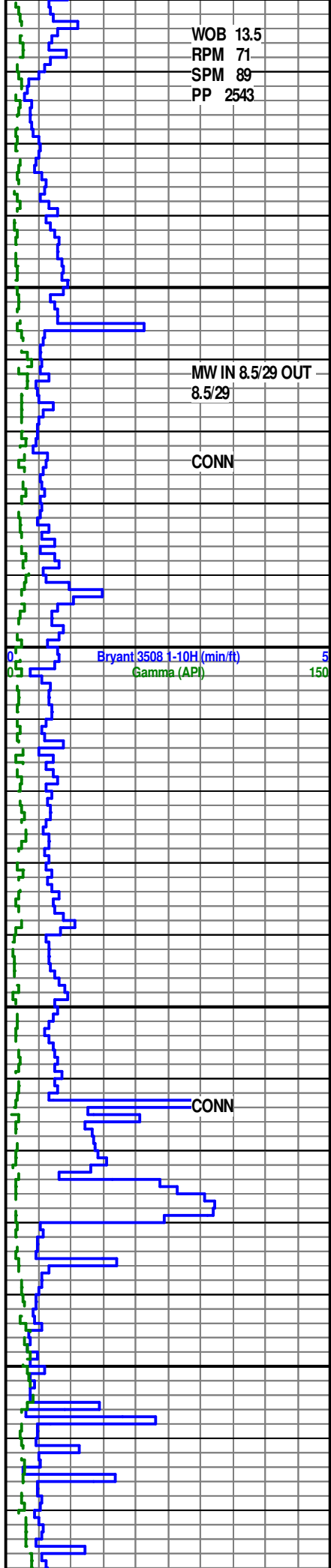
LS: 90% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 10% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

CONN

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, lt Yl flor, Yl rng, no cut

SD: 9329.00
Inc: 88.43





Azi: 179.50
TVD: 4866.09
VS: 4880.09

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

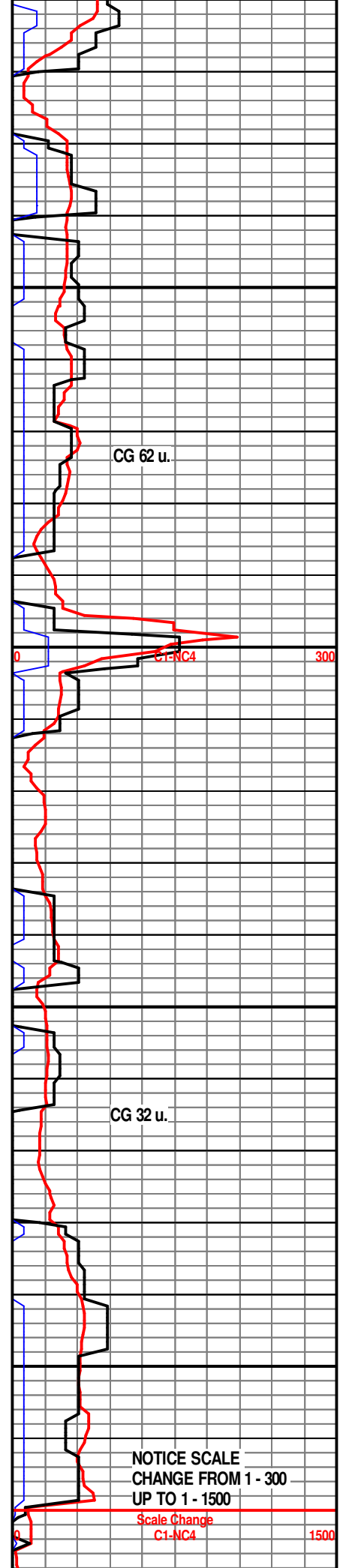
SD: 9421.00
Inc: 88.89
Azi: 179.54
TVD: 4868.25
VS: 4972.07

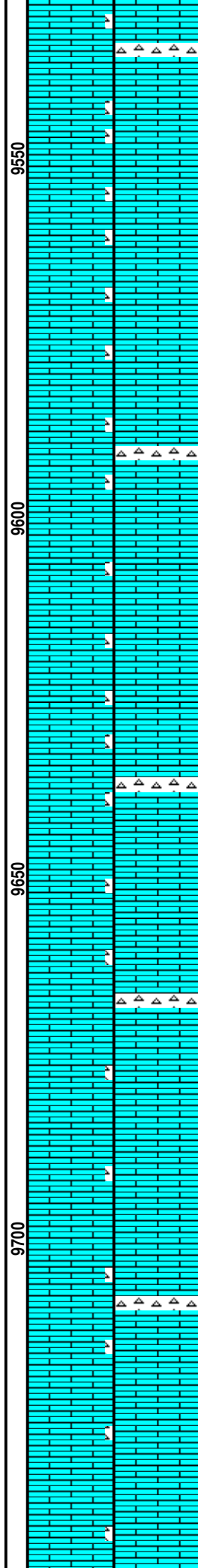
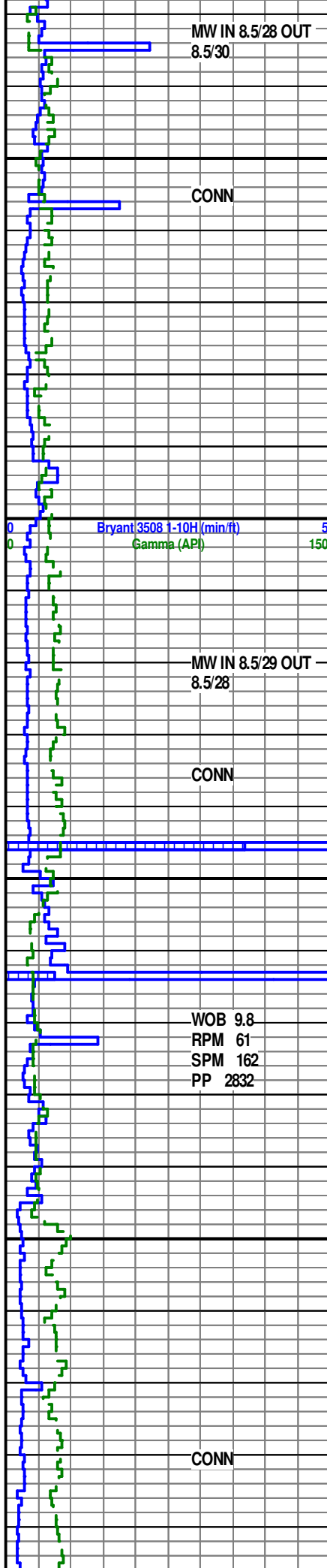
LS: 100% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, lt Yl flor, Yl rng, no cut

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 9513.00
Inc: 90.22
Azi: 179.92
TVD: 4868.96
VS: 5004.00





VS: 5064.06

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt YI flor, YI rng, no cut

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt YI flor, YI rng, no cut

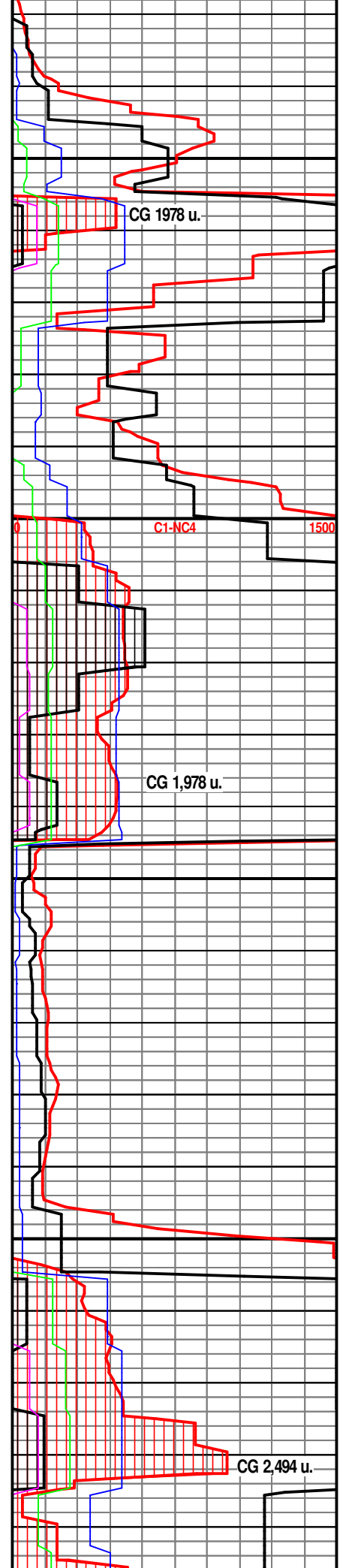
LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt YI flor, YI rng, no cut

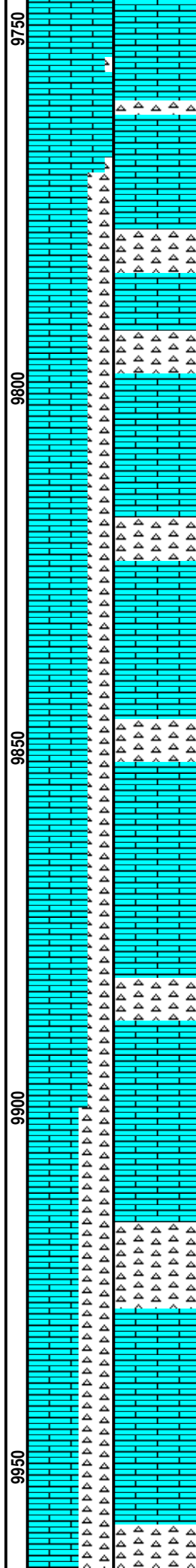
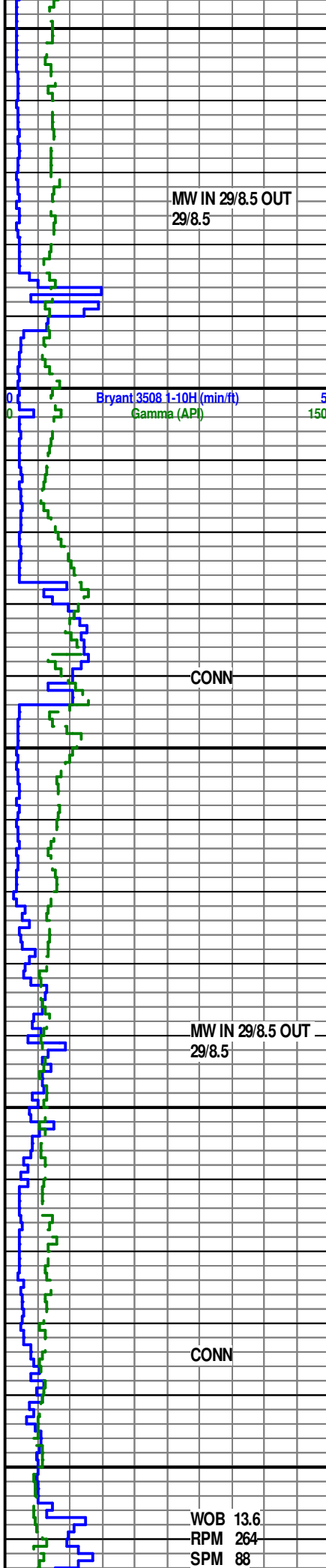
SD: 9604.00
Inc: 90.62
Azi: 178.10
TVD: 4868.29
VS: 5155.05

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt YI flor, YI rng, no cut

SD: 9696.00
Inc: 90.19
Azi: 177.38
TVD: 4867.64
VS: 5247.02

LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 05% Wht, hrd, blk, lt YI flor, YI rng, no cut





LS: 95% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 05% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 9788.00
Inc: 88.99
Azi: 175.45
TVD: 4868.30
VS: 5338.89

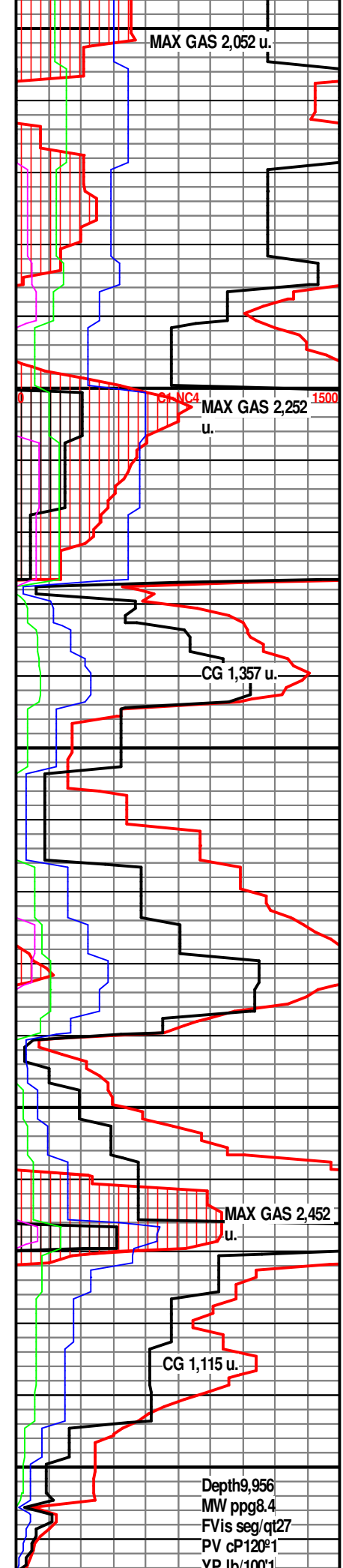
LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 70% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 30% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 9880.00
Inc: 90.12
Azi: 176.36
TVD: 4868.25
VS: 5430.76

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 40% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull,sub blk, CHRT: 40% Wht, hrd, blk, lt Yl



SD: 9975.00
Inc: 88.55
Azi: 175.45
TVD: 4869.35
VS: 5525.58

**LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut**

SD: 10070.00
Inc: 89.07
Azi: 176.07
TVD: 4871.33
VS: 5620.38

**LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut**

SD: 10133.00
Inc: 90.06
Azi: 176.73
TVD: 4871.81
VS: 5683.30

LS: 20% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 30% Wht, hrd, blk, DOL:
50% Crm-off Wht, frm, arg, blk; lt
Yl flr, Yl rng, no cut

SD: 10165.00
Inc: 90.12
Adj: 472.27

Gel 30min	
API fil60	
Cake2	
Water %99.5%	
Sol %Vol0.5%	
MBT	
PH9.5	
Mud Alk	
Fil Alk	
Chorides900	
Hardness80	

C1-NC4	sw lube 3	1500
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CG 204 u.

CG 1,600 u.

0H (min/ft)

Gamma (API)

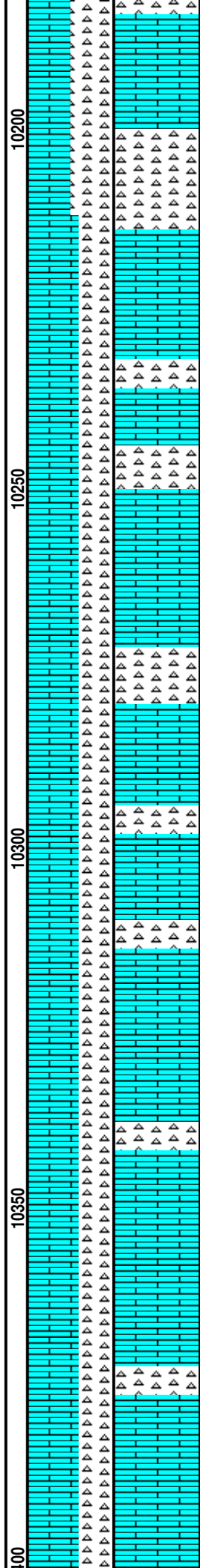
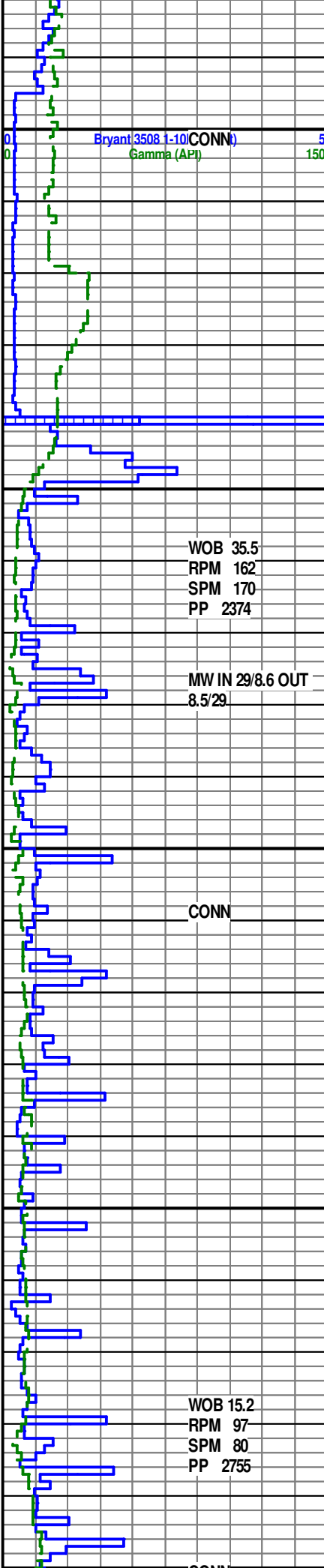
CONN

	MW IN	29/8.5	OUT	
	30/8.5			

—CONN

WOB	19.1
RPM	89
SPM	78
PP	2848

MW IN 29/8.4	OUT
29/8.5	



Azi: 176.97
TVD: 4871.76
VS: 5715.27

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 50% Wht, hrd, blk, lt YI
flor, YI rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

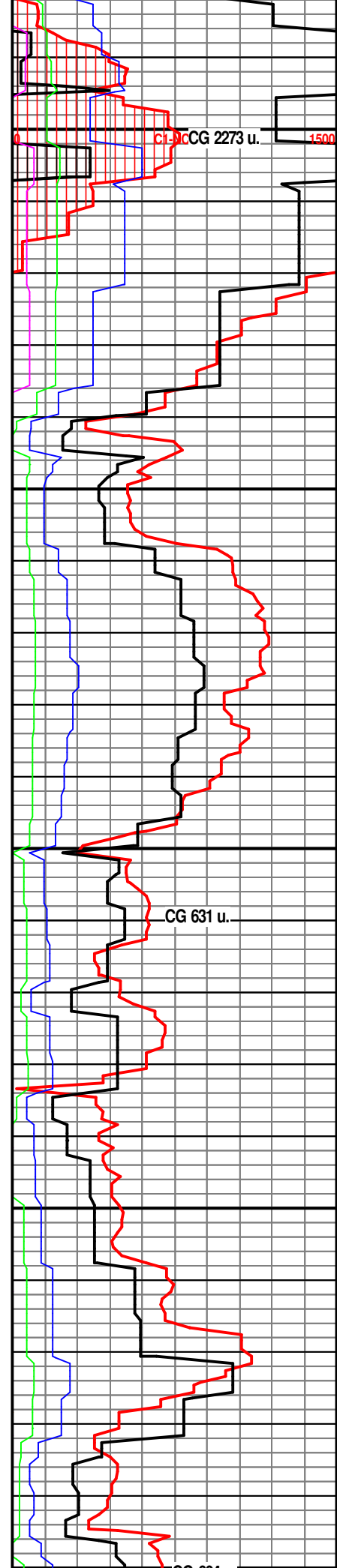
SD: 10260.00
Inc: 91.55
Azi: 178.67
TVD: 4870.37
VS: 5810.22

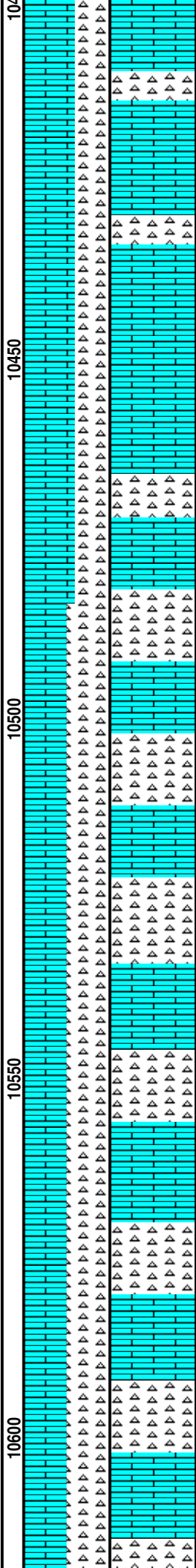
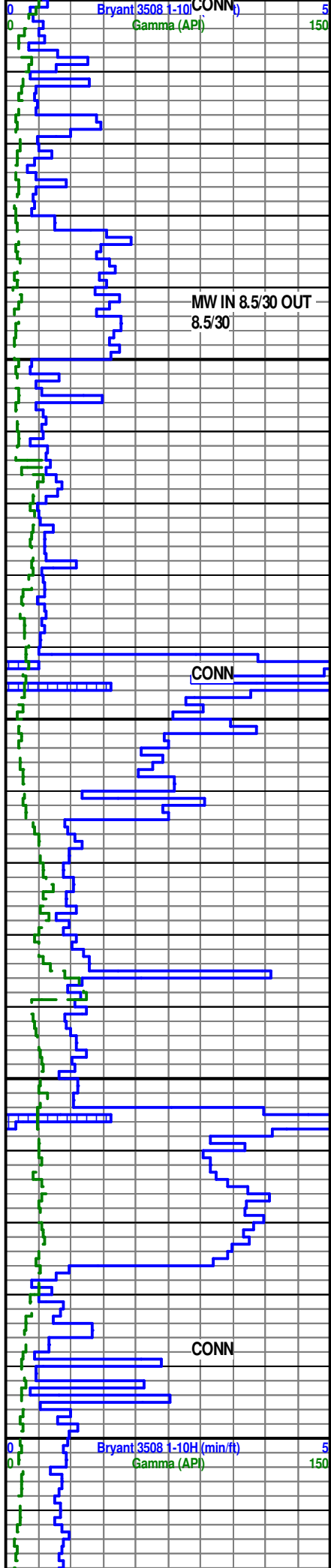
LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

SD: 10355.00
Inc: 89.91
Azi: 177.72
TVD: 4869.16
VS: 5905.19

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut





LS: 60% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 40% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

SD: 10449.00
Inc: 89.72
Azi: 177.87
TVD: 4869.46
VS: 5999.15

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

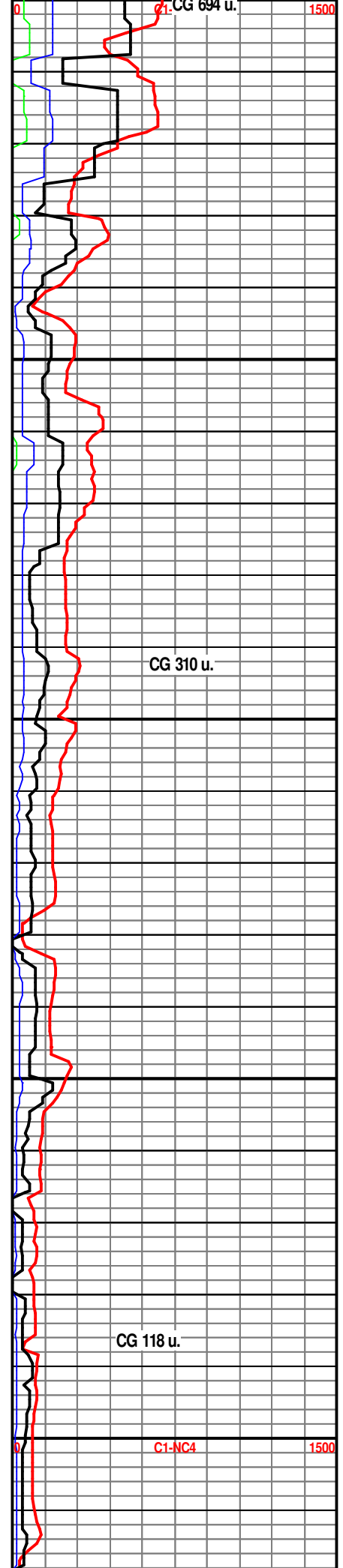
LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

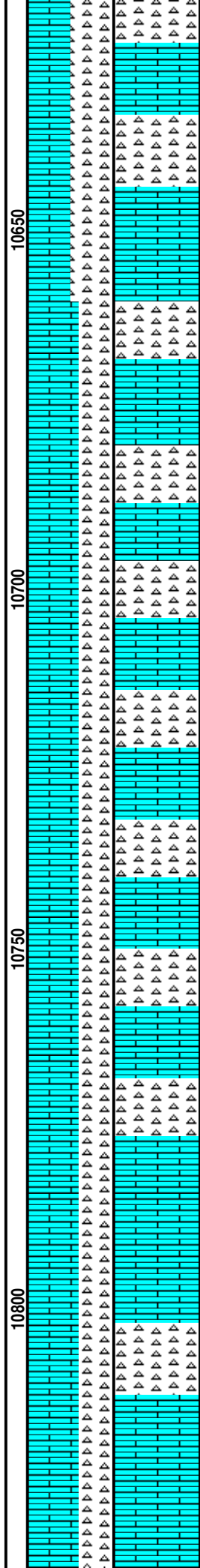
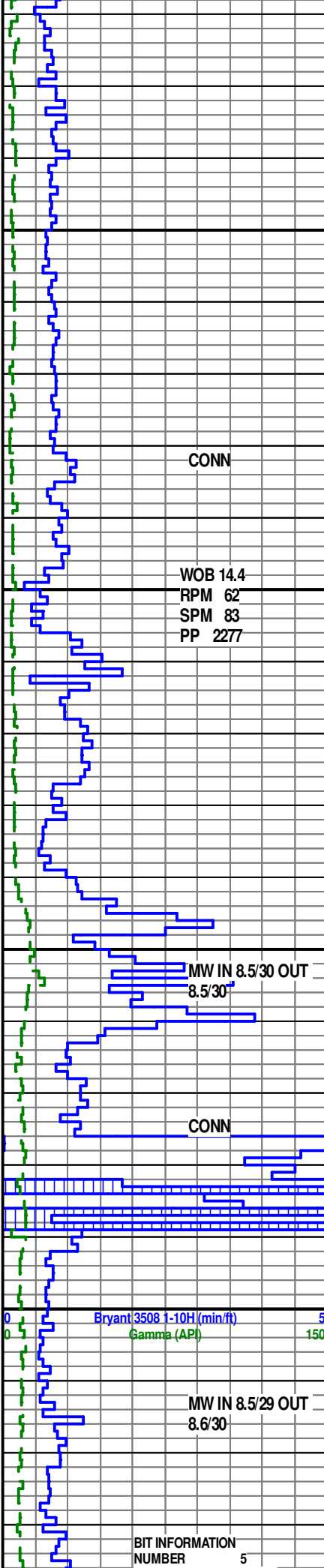
SD: 10544.00
Inc: 90.09
Azi: 178.53
TVD: 4869.62
VS: 6094.14

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk, CHRT: 50% Wht, hrd, blk, lt Yl flor, Yl rng, no cut

LS: 50% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk,





CHRT: 50% Wht, hrd, blk, lt YI
flor, YI rng, no cut

SD: 10639.00
Inc: 92.15
Azi: 179.49
TVD: 4867.37
VS: 6189.10

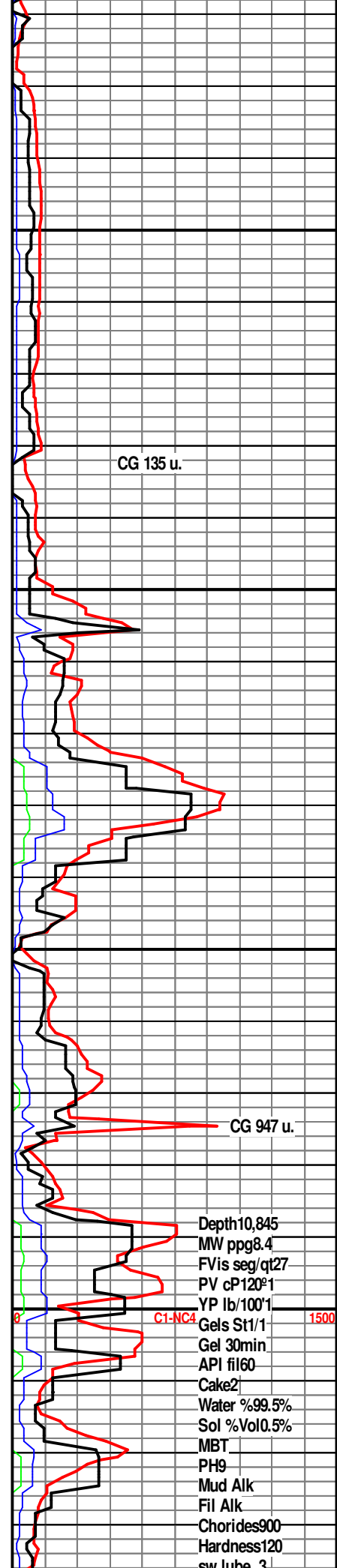
LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

SD: 10734.00
Inc: 93.21
Azi: 179.95
TVD: 4862.93
VS: 6283.99

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, no cut

SD: 10829.00
Inc: 92.45
Azi: 179.47
TVD: 4858.63
VS: 6378.88



COMPANY HUGHES
MODEL TD405XX
TYPE PDC
SIZE 8 3/4
JETS 6X16
TOTAL FEET 349
TOTAL HRS 15.75
AVG ROP 22
WOB 15
RPM 349
DEPTH IN 10845
DEPTH OUT 11188

CONN

CONN

MW IN 8.5/29 OUT
8.6/30

TOOH @ 10,845' MD FOR NEW BIT

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 50% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 50% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

SD: 10924.00
Inc: 91.85
Azi: 181.58
TVD: 4855.07
VS: 6473.79

LS: 50% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 50% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull, sub blk,
CHRT: 40% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

SD: 11019.00
Inc: 90.22
Azi: 182.51
TVD: 4853.35
VS: 6568.66

LS: 50% Crm-off Wh, lt Gy, frm,

NOTICE SCALE
CHANGE FROM 1 -
1500 UP TO 1 - 250

Scale Change
C1-NC4

TRIP GAS 35 u.

CG 44 u.

CG 5 u.

C1-NC4

mic xln, frm, arg, dull,sub blk;
CHRT: 50% Wht, hrd, blk, lt Yl
flor, Yl rng, no cut

LS: 60% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk;
DOL: 20% off Wht, lt Brn, frm-hrd,
blk; CHRT: 20% Wht, hrd, blk, lt
Yl flor, no rng, bri Wht cut

SD: 11114.00
Inc: 89.54
Azi: 182.36
TVD: 4853.55
VS: 6663.52

SD: 11145.00
Inc: 89.50
Azi: 182.17
TVD: 4853.81
VS: 6694.48

LS: 40% Crm-off Wh, lt Gy, frm,
mic xln, frm, arg, dull,sub blk;
DOL: 20% off Wht, lt Brn, frm-hrd,
blk; CHRT: 40% Wht, hrd, blk, lt
Yl flor, no rng, bri Wht cut

TOOH @ 11,188' MD
FOR BIT

SD: 11208.00
Inc: 89.75
Azi: 182.44
TVD: 4854.22
VS: 6757.39

LS: 30% Crm-off Wh, lt Brn, frm,
mic xln, frm, arg, dull, blk; DOL:
30% off Wht, lt Brn, frm-hrd, blk;
CHRT: 40% Wht, hrd, blk, lt Yl
flor, lt Yl rng, bri Wht cut

MAX GAS 306 u.

CG 363 u.

Depth11,117
MW ppg8.4
FVis seg/qt27
PV cP120°1
YP lb/100'1
Gels St1/1
Gel 30min
API fil60
Cake2
Water %99.5%
Sol %Vol0.5%
MBT
PH9
Mud Alk
Fil Alk
Chorides1000
Hardness120
SW Lube1

CG 162 u.

TRIP GAS 1,873 u.

C1-NC4

250

CG 113 u.

Depth11,268
MW ppg8.4
FVis seg/qt27
PV cP120°1
YP lb/100'1
Gels St1/1
Gel 30min
API fil60
Cake2
Water %99.5%
Sol %Vol0.5%
MBT
PH9
Mud Alk
Fil Alk
Chorides1000
Hardness80
SW Lube1

CONN

MW IN 29/8.4
OUT 29/8.4

WOB 16.6
RPM 38
SPM 92
PP 2875

CONN

MW IN 28/8.4
OUT 28/8.

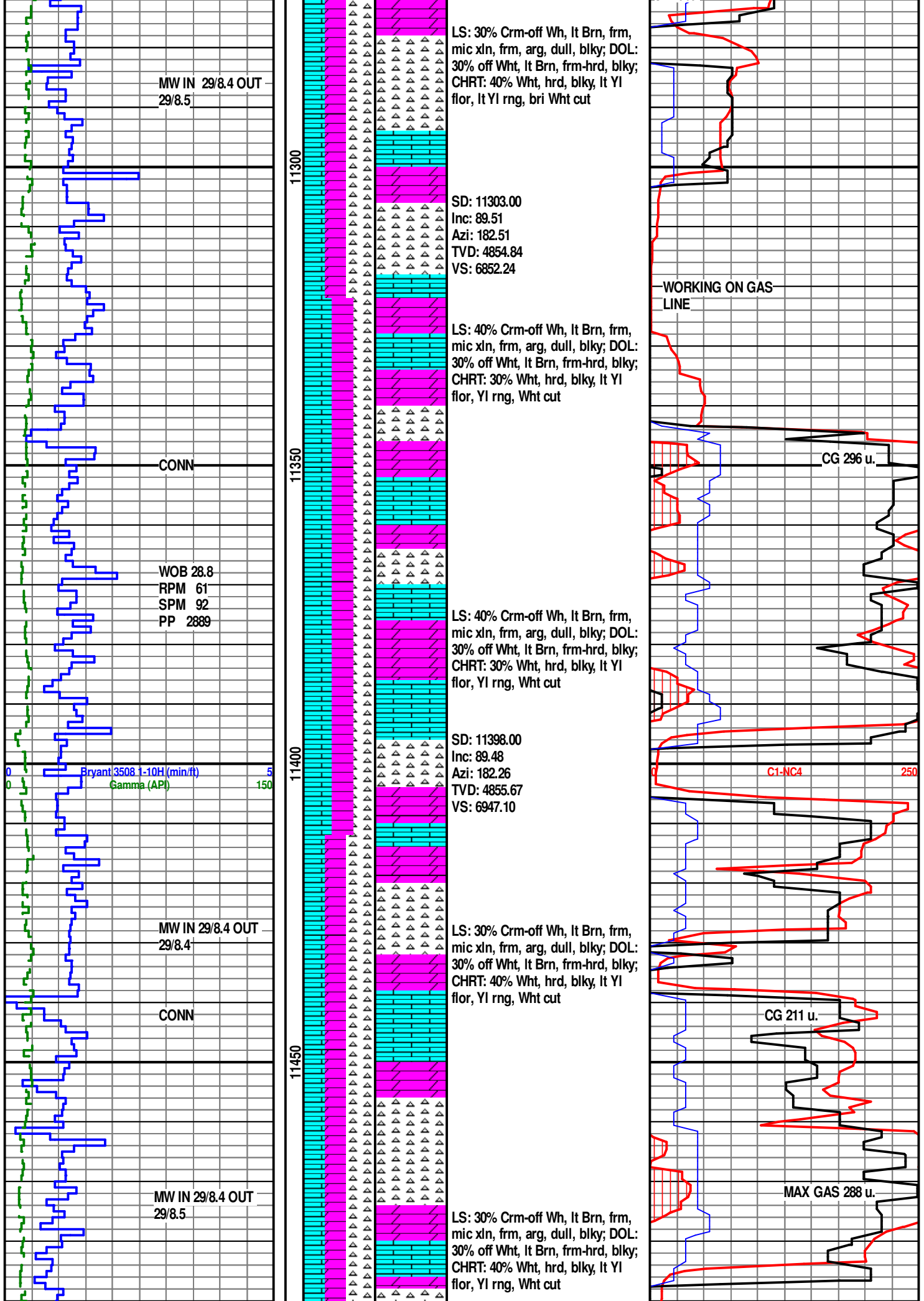
BIT INFORMATION
NUMBER 6
COMPANY HUGHES
MODEL STX44CDX
TYPE MILL TOOTH
SIZE 6 1/8
JETS 6X16
TOTAL FEET 0
TOTAL HRS 0
AVG ROP 0
WOB 0
RPM 0
DEPTH IN 11188
DEPTH OUT 0

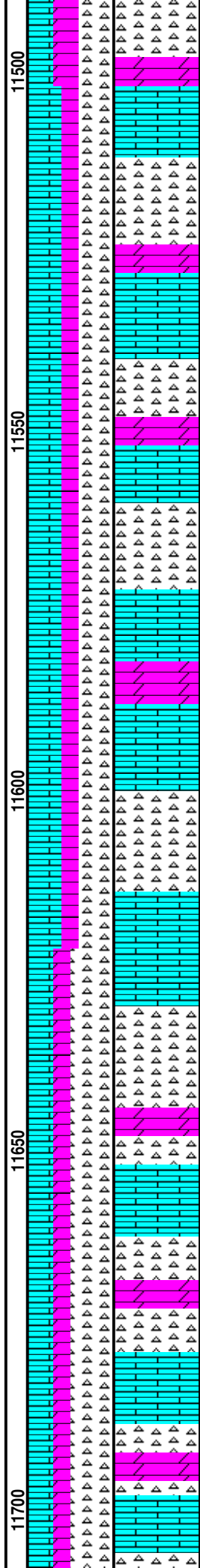
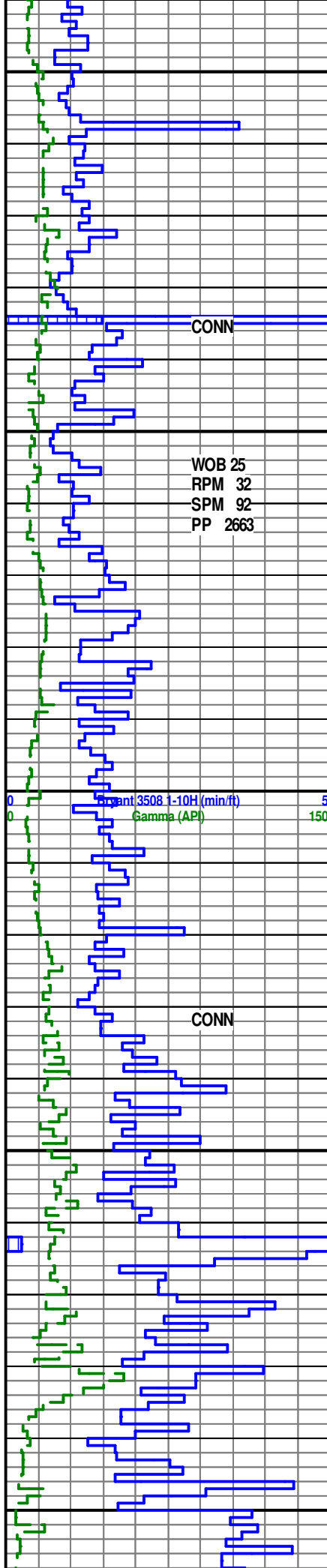
Bryant 3508 1-10H (min/ft)
Gamma (API)

MW IN 30/8.6 OUT
30/8.6

CONN

WOB 15.5
RPM 70
SPM 177
PP 2923





SD: 11493.00
Inc: 90.43
Azi: 182.30
TVD: 4855.75
VS: 7041.97

LS: 40% Crm-off Wh, lt Brn, frm,
mic xln, frm, arg, dull, blk; DOL:
20% off Wht, lt Brn, frm-hrd, blk;
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, Wht cut

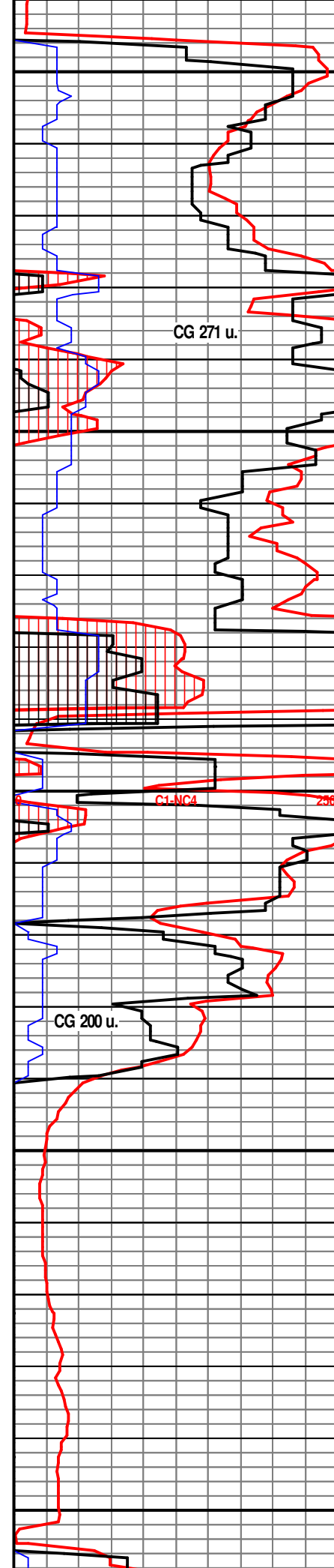
LS: 40% Crm-off Wh, lt Brn, frm,
mic xln, frm, arg, dull, blk; DOL:
20% off Wht, lt Brn, frm-hrd, blk;
CHRT: 40% Wht, hrd, blk, lt YI
flor, YI rng, Wht cut

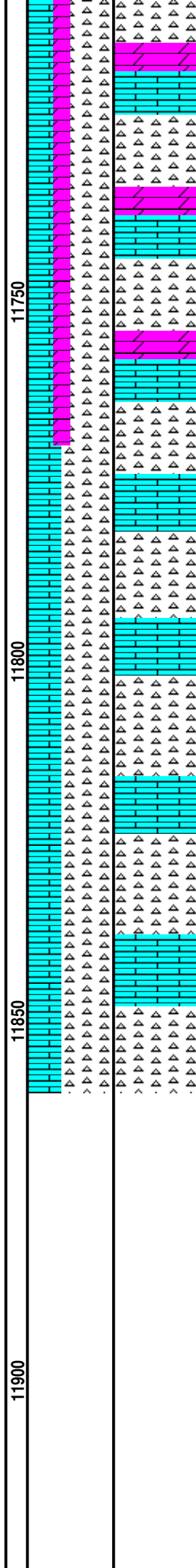
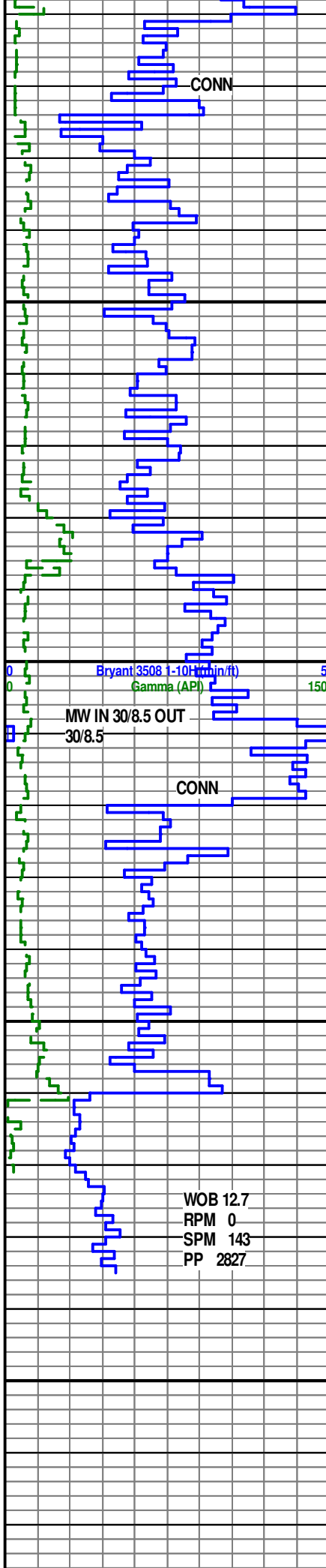
SD: 11588.00
Inc: 89.78
Azi: 181.74
TVD: 4855.57
VS: 7136.87

LS: 30% Crm-off Wh, lt Brn, frm,
mic xln, frm, arg, dull, blk; DOL:
20% off Wht, lt Brn, frm-hrd, blk;
CHRT: 50% Wht, hrd, blk, lt YI
flor, YI rng, Wht cut

SD: 11683.00
Inc: 89.97
Azi: 181.73
TVD: 4855.78
VS: 7231.78

LS: 30% Crm-off Wh, lt Brn, frm,
mic xln, frm, arg, dull, blk; DOL:
20% off Wht, lt Brn, frm-hrd, blk;
CHRT: 50% Wht, hrd, blk, lt YI
flor, YI rng, Wht cut





LS: 30% Crm-off Wh, lt Brn, frm, mic xln, frm, arg, dull, blk; DOL: 20% off Wht, lt Brn, frm-hrd, blk; CHRT: 50% Wht, hrd, blk, lt YI flor, YI rng, Wht cut

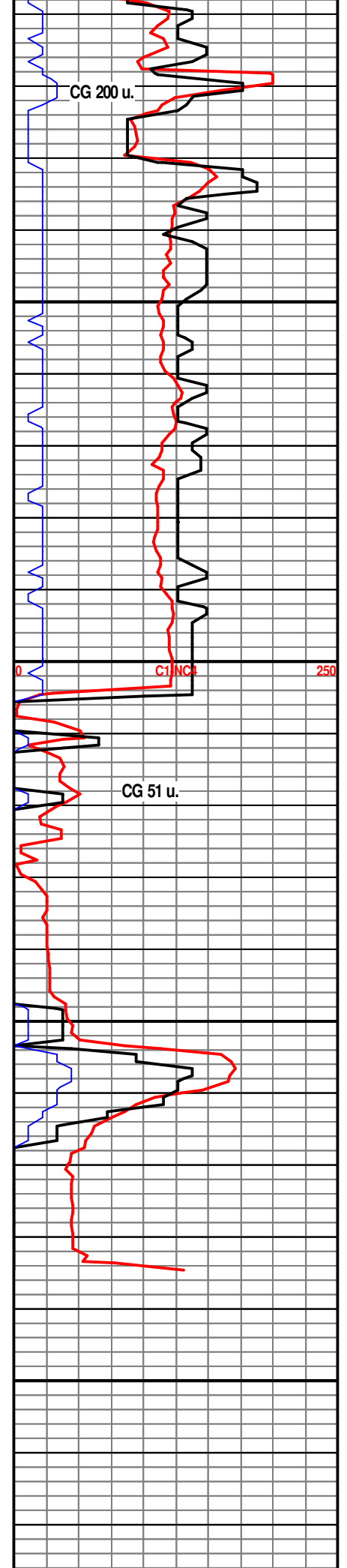
LS: 30% Crm-off Wh, lt Brn, frm, mic xln, frm, arg, dull, blk; DOL: 20% off Wht, lt Brn, frm-hrd, blk; CHRT: 50% Wht, hrd, blk, lt YI flor, YI rng, Wht cut

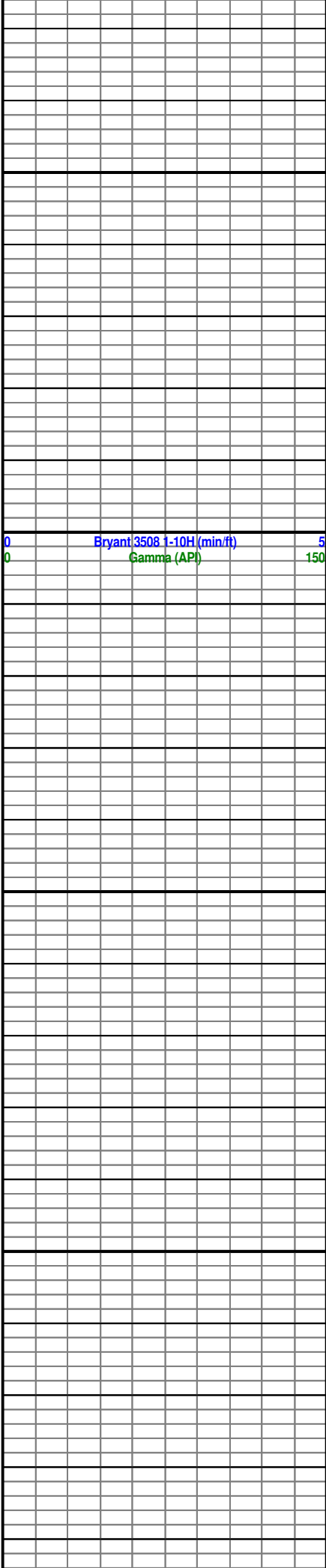
LS: 40% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk; CHRT: 60% Wht, hrd, blk, lt YI flor, YI rng, Wht cut

LS: 40% Crm-off Wh, lt Gy, frm, mic xln, frm, arg, dull, sub blk; CHRT: 60% Wht, hrd, blk, lt YI flor, YI rng, Wht cut

SD: 11873.00
Inc: 91.08
Azi: 182.11
TVD: 4854.61
VS: 7421.55

WOB 12.7
RPM 0
SPM 143
PP 2827



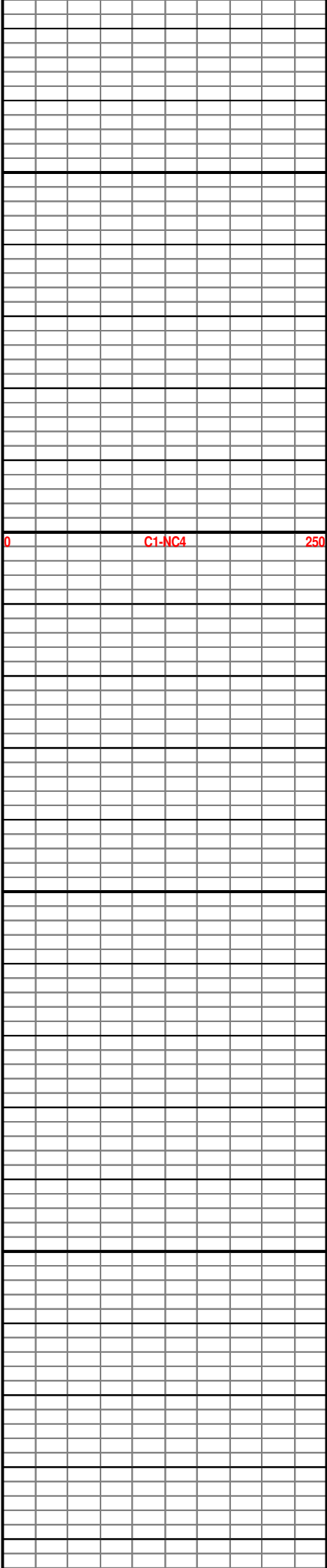


11950

12000

12050

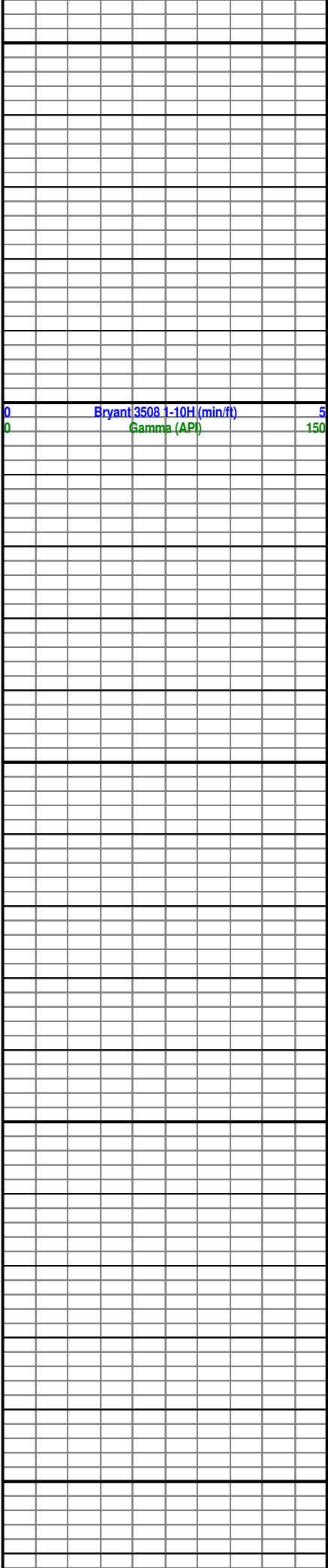
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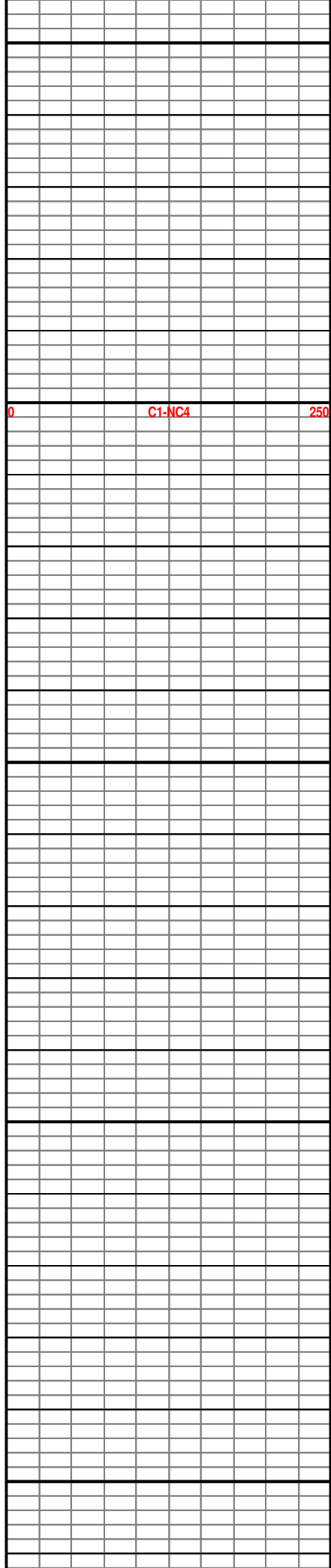
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C1-NC4

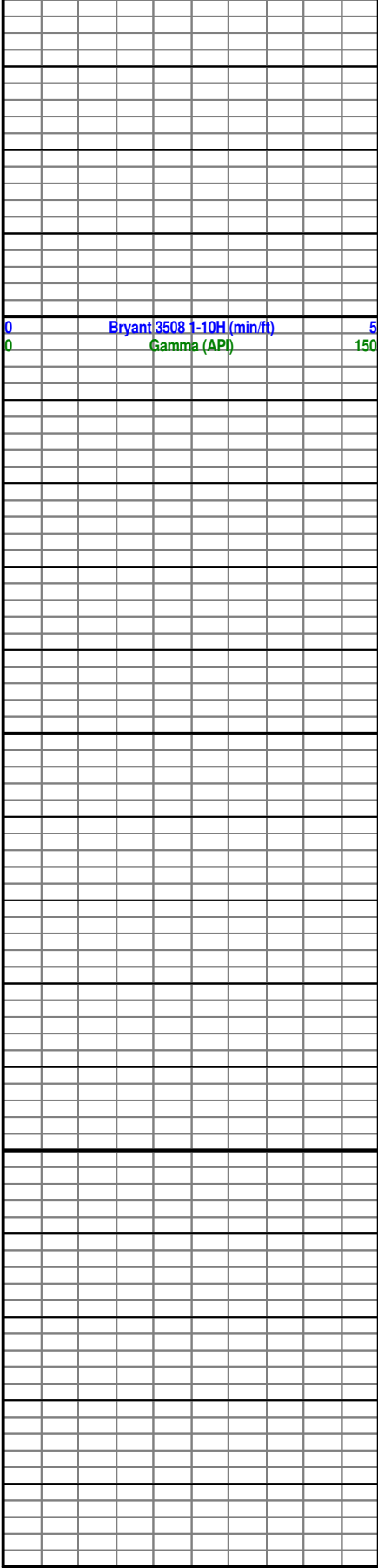
250



12350 12300 12250 12200 12150



0 250 500

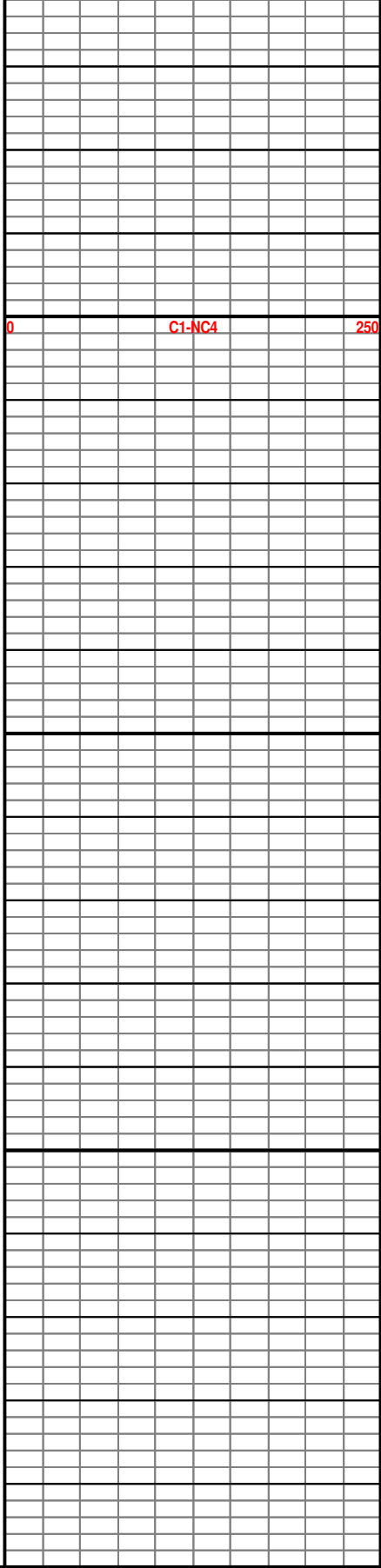


12400

12450

12500

12550



0

250

500